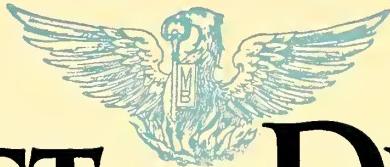


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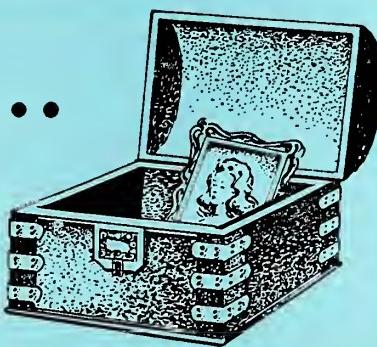


# CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

FEBRUARY 26 1955

*The right choice ....*



Bassanio's choice of the leaden casket was a nice blend of luck and judgment ; but there need be no doubt in the mind of the physician who wishes to select the most potent antibiotic against staphylococci, streptococci and pneumococci.

'ILOTYCIN' brand erythromycin exerts a prompt bactericidal effect against these and other Gram-positive organisms. Adequate two-hour blood levels are readily attained after oral administration. 'Ilotycin' causes minimal disturbance of the intestinal flora, and no toxic diarrhoeas have been reported from its use. 'Ilotycin' is safe and well tolerated.

.... in Sinusitis • Septic Sore Throat • Bronchopneumonia • Lobar Pneumonia • Wound Infections • Breast Abscess • Staphylococcal Septicaemia Cellulitis • Diphtheria Carriers

**'ILOTYCIN'** tablets  
100 mg. & 200 mg. in bottles of 24 & 100.

Average Dose :  
1.2Gm. daily in divided doses at 4 - 6 hour intervals.

**'ILOTYCIN'** Paediatric  
Flavoured oral suspension for children in bottles to make 60 cc. (5cc. = 100mg. 'Ilotycin').

Average Dose :  
½ teaspoonful per stone bodyweight every six hours.

*use 'ILOTYCIN' the safe antibiotic*

**Lilly**  
TRADE MARK

ELI LILLY AND COMPANY LTD., BASINGSTOKE, ENGLAND

No other tablet coating provides for faster or higher blood levels than the special coating of tablets 'Ilotycin'.

**UNRIVALLED FOR 50 YEARS**

**THOMPSON'S**  
(THE ORIGINAL)

# SLIPPERY ELM FOOD

**STILL POTTER'S BIGGEST SELLING LINE**

Thousands of families know this wonderful food which has stood the test of years. Word of mouth recommendation alone has made it Potter & Clarke's biggest seller. Thompson's Slippery Elm Food is a nourishing, strengthening and very digestible food especially for children and invalids.



*and so-well sold!*

Ideal  
for  
Infants  
and  
Invalids

*So well known*

Available in  
three varieties :

**MALTED**

**UNMALTED**

**WHOLEMEAL  
MALTED**

Orders through  
Wholesalers only please

**Thompson's SLIPPERY ELM FOOD**

*is another good-selling*

**Potter's product**



**POTTER & CLARKE LIMITED,** River Road, Barking, Essex.

Telephone : **RIPpleway 3041**

# CASH IN ON THE "ROUGH HANDS" SEASON

Powerful publicity in women's magazines and full-colour escalator cards on London underground stations, punch home their message at the right time—when women's hands feel the effects of treacherous March winds ! Now is the time to stock up—ready for heavy demand ! Make sure of your share of the profits.

ORDER MORE **Glyniel JELLY NOW**

OSBORNE BAUER & CHEESEMAN LTD.

AGENTS: SANGERS LIMITED

258 EUSTON ROAD, LONDON N.W.I. Branches: NEWCASTLE & BRISTOL



12 FOR THE PRICE OF ELEVEN

Again we make our Bonus Offer in the early spring to enable retailers to build an initial stock at the beginning of the farming year. This extra bonus, added to the already generous margin given on I.C.I. aids to healthy livestock, means a total profit to you of nearly 64% on outlay. The offer closes on April 1st—so please hurry!

# ICI BONUS OFFER

THIS YEAR YIELDS A PROFIT  
ON OUTLAY OF NEARLY

**64%**



PUBLICITY  
TO HELP YOU  
SELL

Powerful advertising support all the year round, in the main farming and poultry journals. Display material, and other publicity aids specially arranged to meet individuals needs.

Make up your order in dozens, from any of the following popular products.

'AVLOTHANE' (Hexachloroethane) · CARBON TETRACHLORIDE CAPSULES B.P.  
'CETAVLON' CONCENTRATE M.C. · 'CETAVLON' UDDER CREAM · 'CHIXIN' (Nitrofurazone) · 'GAMMEXANE' INSECT POWDER · 'GAMMEXANE' LOUSE POWDER · 'LOREXANE' ANTISEPTIC CREAM · 'LOREXANE' DUSTING POWDER · 'LOREXANE' INSECT SPRAY · 'LOREXANE' SOLUTION IN MISCELLANEOUS OIL · 'MINEL' (Phenothiazine & Hexachloroethane plus Minerals) · 'SULPHAMEZATHINE' Sodium Solution 16% · 'TETMOSOL' Medicated SOAP

Certain large size packs are available at 6 for the price of 5½



## Aids to healthy livestock

*Full details and order cards have been sent to all farmers' chemists. If yours has not reached you, please write to your nearest I.C.I. Sales Office, or direct to*

**IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED**

A subsidiary company of Imperial Chemical Industries Ltd.

FULSHAW HALL, WILMSLOW, MANCHESTER

# EVANS

## MEDICAL

### RANGE OF PRODUCTS FOR THE HOME

<b>BLUE CROSS BABY POWDER</b>	A finely milled dusting powder for nursery use.
<b>CHILBAN</b>	A cream for the relief of chilblains
<b>COLLOZIN</b>	A soothing skin lotion
<b>EMOLAN</b>	An emollient hand cream
<b>EVANS THROAT PASTILLES</b>	A traditional remedy known the world over
<b>HANDGUARD</b>	Barrier Creams for household use
<b>MEDISOAPS</b>	A range of medicated soaps
<b>MICROBAN</b>	An antiseptic cream for household use
<b>OCULAX</b>	An antiseptic eye lotion
<b>RUBAN</b>	An analgesic and rubefacient cream
<b>ZANT</b>	An all purpose disinfectant and antiseptic

**EVANS MEDICAL SUPPLIES LTD.**

SPEKE, LIVERPOOL 19

ALSO AT LONDON, NEWCASTLE & SWANSEA

"*Skylon*

POLYTHENE BOAT SHAPED  
BABIES FEEDING BOTTLE

This new boat shaped babies' polythene feeding bottle has been specially developed to meet popular request. It is unbreakable, hygienic, tasteless, odourless and unaffected by foodstuffs. Openings at either end make for easy cleaning and its light weight makes it ideal for the small infant. All standard teats and valves will fit the necks.



P.A.T.A.

Packed in individual cartons with full sterilizing instructions.



ACORN 5073/4

FIBRENYLIE

LIMITED

157 DUKES ROAD · WESTERN AVENUE · LONDON · W.3

# Reputation SELLS !

The impetus behind our 1954 publicity for Dr. Page-Barker's two popular products is keeping sales soaring.

The public know the value of these reliable preparations for maintaining a healthy scalp and hair in good condition.

You can't afford to let your stocks drop too low. Check up NOW and renew your orders.

Showcards: FREE on application

THOS. CHRISTY & CO. LTD.  
North Lane, Aldershot, HANTS.



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### **A new treatment for threadworm infestation**

'Entacyl' (piperazine adipate tablets), has been found to be particularly effective in the eradication of threadworm infestation. Its action is rapid. Its taste is pleasant. Administration is not accompanied by nausea or other side effects even in very young children. Complete eradication is obtainable without the use of an enema.

### **'ENTACYL'**

TRADE  
MARK

*Tablets containing Piperazine Adipate 300 mg.*

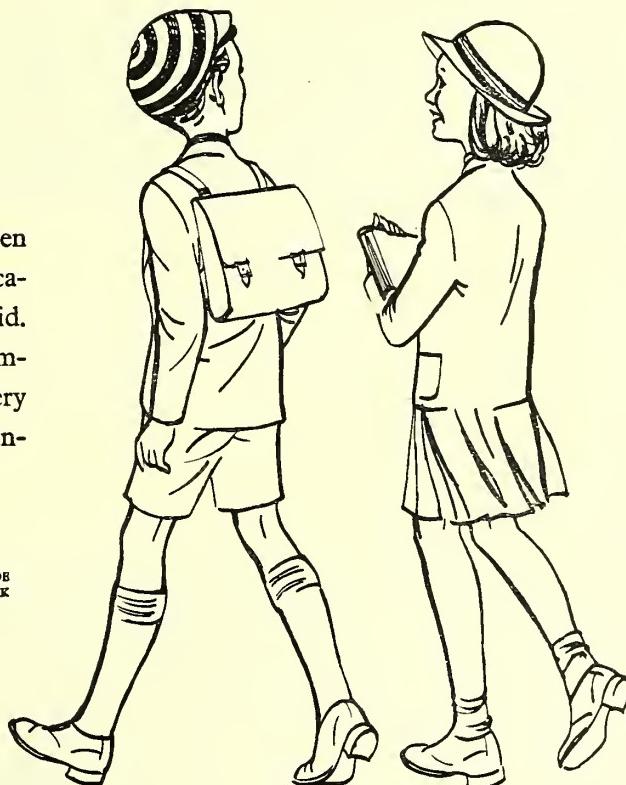
(Brit. Pat. Appn. No. 29123/53)

	TRADE	RETAIL
Bottles of 25	3/-	4/6
" " 100	10/-	15/-
" " 500	42/-	63/-

**EXEMPT FROM PURCHASE TAX**

THE BRITISH DRUG HOUSES LTD. LONDON N. I

Ent/T/541



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*From the Carnegie Range of Fine Chemicals***METHOIN B.P.****CARNEGIES OF WELWYN LTD**

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

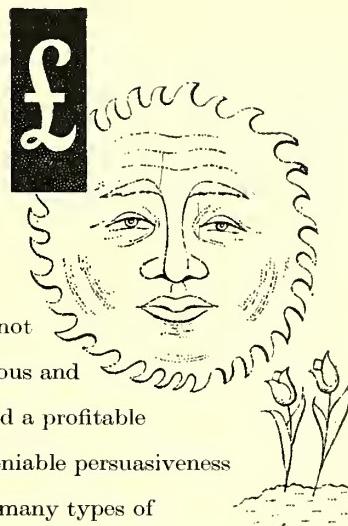
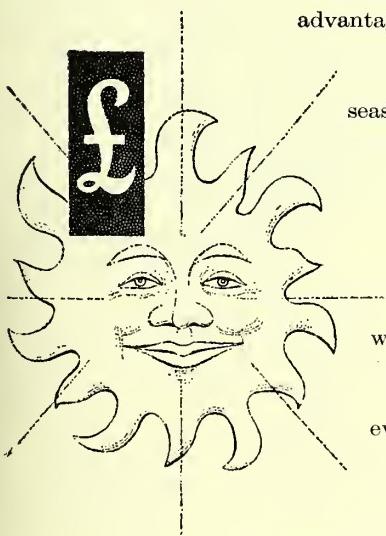
Telephone: WELWYN GARDEN 5001

(6 lines)



## Perennial Profit

From the chemist's point of view, the advantage of stocking a laxative is that the demand for it is continuous—not seasonal. When the laxative is as efficacious and well known as Agarol, it is indeed a profitable venture. The gentle yet undeniable persuasiveness of Agarol makes it very useful for many types of patient . . . elderly and very young people, pregnant women and sufferers from constipation and haemorrhoids. Agarol is a preparation that you can supply with every confidence whenever you are asked to recommend an aperient. It is suitable for use in any age.

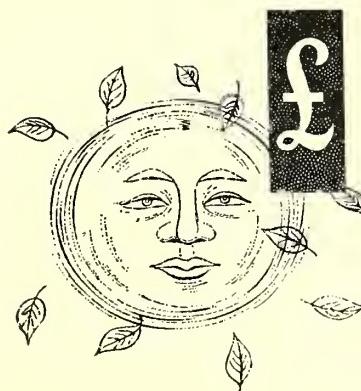


*No Warner preparation has ever been advertised to the public*

Agarol is available in bottles containing 6 and 14 fluid ozs. at 3/7d. and 7/2d.; list price per dozen 27/- and 54/- respectively, excluding Purchase Tax; for dispensing only, in tax free bottles of 80 fluid ozs. at 18/6d. each.

# AGAROL

PATA

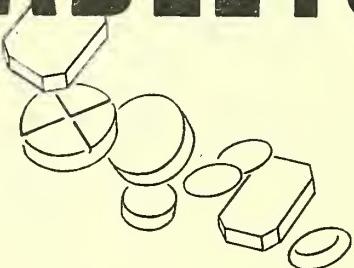


No. 2 of a New Series

PRESENTED BY ARTHUR H. COX & CO. LTD.

*It depends what  
you mean by*

# "TABLETS"



This is a fine example of an Assyrian writing tablet and is part of the Assyrian story of the Deluge, which resembled the account of Noah in the Old Testament. It was written for the Assyrian Royal Library, about 650 B.C., and although of a much later date than the Babylonian tablet described last month\* appears similar in treatment and effect.

The exact method of the early scribes in writing on clay is not known but there is reason to believe that in shaping the clay the thumb and fingers were used on less important documents. Later, a pointed object was used to form wedge shaped incisions. Though wet clay will take lines from a fine point it is impossible to draw objects in full detail successfully.

The large tablets used in the third millennium were abandoned for general use, but are found occasionally in use for long literary texts.

Note the uniformity of lettering in this example. That is something the modern tablet has in common with the ancient writing tablets. In the tablets made by Arthur H. Cox & Co. uniformity is just as much an art as lettering was to the old Assyrian scribes.

\**Chemist & Druggist*, Page 8, 29 January, 1955

... but the best tablets TO-DAY  
are made by



## MILLIONS OF BUBBLES

The amazing success of 1954, SORELLA FOAM BATH, sold over a MILLION PACKETS in the past few months—REPEAT ORDERS following REPEAT ORDERS everywhere—without advertising.

Encouraged by this response from the public we are launching a powerful advertising campaign for four months, starting in March.

## MILLIONS OF ADVERTISEMENTS

We have chosen the most prominent big-circulation women's magazines with over 40 million readership and well-designed advertisements will sell SORELLA FOAM BATH, sending readers to your shop asking for the most attractive line for years.

## MILLIONS OF SALES . . .

At 8d. a packet it will sell repeatedly. Be ready for the instant demands created by the advertising, order from your wholesaler or write to us for supplies and showcards prior to the advertising. Lose no time—STOCK SORELLA FOAM BATH NOW.



*Sorella foam bath*

\* TRADE PRICE: 42/8d. per gross packets plus 31/3d. purchase tax.

JEAN SORELLE LTD., LONDON, N.4. Phone: ARCHway 2771 Grams: PROMELLA, LONDON

JS15B

B



HEALTH-MASTER

Prices  
from 90/-!APPROVED WHOLESALE  
DISTRIBUTORS IN ALL  
AREAS

# GOOD HEALTH LAMPS

*are your business as well as ours!*

All the finer points sought by even the most discriminating customer are found in Barber Health-Master Lamps — and at lower prices because of Barber specialization in this field for 21 years. All this means quicker sales, better profits—really healthy business for you.

**KEEP YOUR STOCKS MOVING BY HANDLING  
THE HEALTH-MASTER RANGE**

# BARBER

Produced under rigid laboratory control by

BARBER ELECTRICAL SERVICES LTD., BIRMINGHAM, 16, *Tele: EDGbaston 3511 (P.B.X.)*

**FOR IMMEDIATE AND FUTURE  
DELIVERY**

## FOLIC ACID

B.P./U.S.P.

*For Home and Export*

**McKESSON & ROBBINS LTD.**

"UNIVERSAL HOUSE"

Southwark Bridge • London • S.E.1

Telephone: WATerloo 3516/7/8

The dye that  
pleases your  
customers is

## Tintex

*the world's  
largest selling  
dye*

- ★ SUPERB QUALITY.
- ★ PROTECTED AGAINST  
DAMP BY INNER  
ENVELOPE.
- ★ NATIONALLY  
ADVERTISED.

*Order today*

TINTEX DYES LTD

127 HIGH STREET • CROYDON

Telephone: CROydon 7211

TID

AMINOPHYLLINE

BISMUTH SALTS

CITRATES

POTASSIUM IODIDE

ALOES

CASCARA SAGRADA "EVENIZED"

RAW TURKISH OPIUM

SERPENTARIA ROOT

**THE NAME THAT GUARANTEES QUALITY**

# Gerhardt

# Old Favourites

Both Heart - Shape Indigestion Tablets and Iodised Throat Tablets have held their position in the best-seller class for a good many years.

Both are now redressed — Heart Shape in convenient foil-wrapped rolls— Iodised in pocket size cartons — and both are presented in handsome, space-saving outers.



**6/- per doz.  
plus 25% tax.**



**6/9 per doz.  
plus 25% tax.**

# New Presentation

**AYRTON SAUNDERS**

& CO. LTD

HANOVER STREET · LIVERPOOL

Telephone Royal 8282

# POPULAR ? . . . . Yes !

# PROFITABLE ? . . . . Yes !

*And Silcot stockists (acknowledging recent credit notes under the Silcot Discount Plan) tell you why*

### DEMAND "GROWING"

"Please find enclosed cheque . . . less credit re discount plan. Thank you very much for this. I find no difficulty in selling your towels. The demand in this district is growing since I first took this business."

*Coventry, 9th February*

### CUSTOMERS "INSIST" ON SILCOT

"It's 'Hobson's choice' with us. Our customers simply insist on Silcot."

*Dulverton, Somerset, 18th January*

### "AS POPULAR AS EVER"

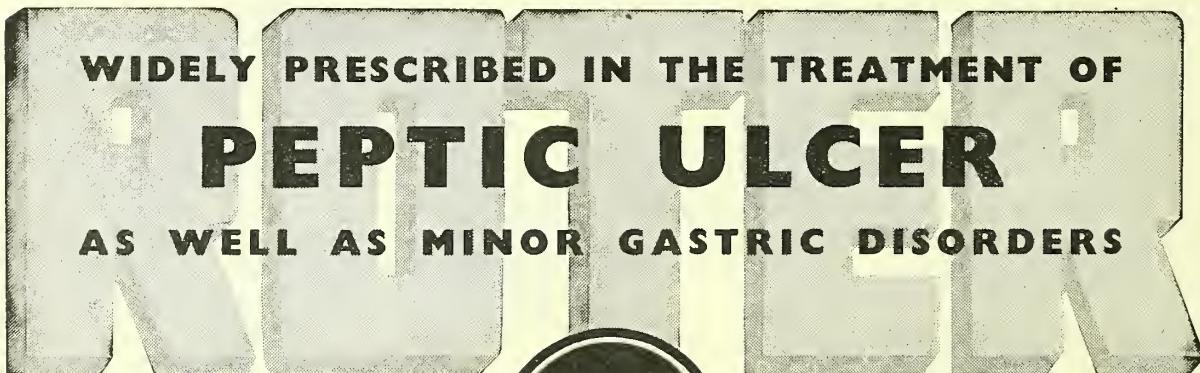
"Please find enclosed cheque and statement, less special discount. Thank you for same. Silcot are just as popular as ever in spite of keen competition."

*South Petherton, Somerset, 9th February*

It's better business for you to sell a towel which gives

*EXTRA comfort to the user    EXTRA profit to the retailer*

MACDONALD & SON LTD • HOPE MILLS • POLLARD STREET • MANCHESTER 4



In the more stubborn cases of gastric and duodenal ulcer, Roter Tablets have often proved effective when other, sometimes radical, measures have failed. They are also of great help in the treatment of post-operative relapse and recurrence.

Whilst their value is most apparent in these major complaints, Roter Tablets can be taken for all minor forms of indigestion, including gastritis. They contain no narcotics, have no side-effects, and do not disturb normal digestive processes.



**TABLETS**

#### PACKINGS

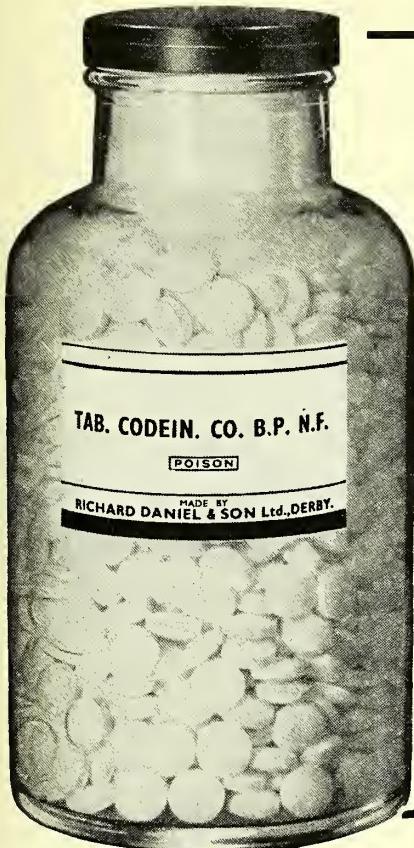
*Retail price  
including P.T.*

Trial size ...	40 tablets ...	7/2d.
Standard size ...	120 "	20/7d.
Full treatment size	640 "	103/-d.
Dispensing Packs	720 "	P.T. exempt

*Stocked by all principal wholesale houses.*

**F.A.I.R. LABORATORIES LTD., 179 HEATH ROAD, TWICKENHAM, MIDDLESEX**

*Telephone: POPesgrov 2028*



# TABLETS of QUALITY

*Manufactured by  
modern machinery  
under skilled supervision*

*Quotations for large or small quantities*

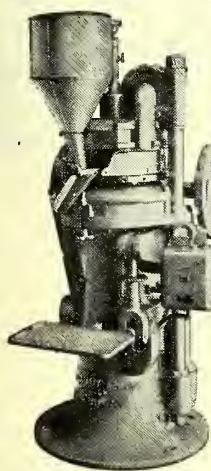
**RICHARD DANIEL & SON LTD**  
MANUFACTURING CHEMISTS

MANSFIELD ROAD **DERBY** TEL. 48266 (4 lines)  
AND AT GROSVENOR STREET, ASHTON-U-LYNE. TEL. 2816 (3 lines)

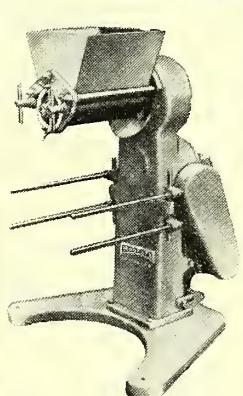
## MANESTY TABLET MAKING MACHINERY

**KNOWN FOR  
EXCELLENCE  
THROUGHOUT  
THE WORLD**

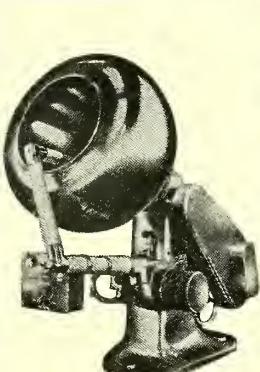
More and more Tablet Makers are turning to MANESTY precision-built tablet-making machinery because of the excellence in design and construction. Each machine is the product of British skill and craftsmanship and results from the long and specialised experience of the MANESTY organisation. The resources of the MANESTY research and technical departments are at the disposal of manufacturers faced with problems of tablet production. MANESTY machinery is used in over 60 countries.



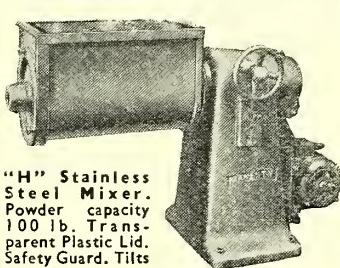
D3A. Rotary Tablet Machine. Fully guarded. Constant or variable speed. Output 346 per min. Size up to 1" diam.



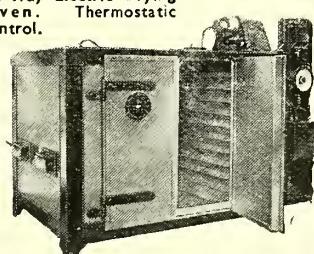
Rotorgran Oscillating Granulator. Capacity 150 lb. moist powder per hour; 1,300 lb. dry powder per hour.



CP2. Vari-Speed Coating Pan. Rotation speeds 12-36 r.p.m. Equipped with self-contained hot air blower. 30" pan.



"H" Stainless Steel Mixer. Powder capacity 100 lb. Transparent Plastic Lid. Safety Guard. Tilts to empty.



20-Tray Electric Drying Oven. Thermostatic control.

**MANESTY MACHINES LTD.**

DEPT. 5, SPEKE, LIVERPOOL, 19  
Telephone: Hunts Cross 1972 Telegrams: Manesty, Liverpool, 19

PUNCHES AND DIES • COATING PANS • GRANULATORS • MIXERS • AUTOMATIC WATER STILLS

# ANNOUNCEMENT

**regarding**

## Holly-Pax

**INTERNAL SANITARY PROTECTION  
WITHOUT APPLICATORS**

From March 1st, 1955

Messrs. Fassett & Johnson Ltd., are relinquishing distribution rights in the above. From that date:-

**PLEASE ORDER HOLLYPAX FROM  
YOUR USUAL WHOLESALER**

*Hollypax prices remain unaltered at*

<b>6</b>	<b>TAMPONS</b>	<b>8d</b>
<b>12</b>	<b>TAMPONS</b>	<b>1/3d</b>

Hollypax is advertised in nationally distributed magazines. Write to the Manufacturers for new point-of-sale material:-

**TAMPAX LIMITED**

BELVUE ROAD, NORTHOLT, GREENFORD,  
MIDDLESEX

**BEST-SELLERS  
ALL  
the year round!**



**"Sun-tang"**

made from whole oranges, sugar  
and glucose—the delicious  
orange drink.



**'NIAGARA'**  
**Blackcurrant Syrup**

made from Blackcurrant juice  
and sugar—rich in Vitamin C—  
the perfect drink for young  
and old alike.

When widespread national advertising brings additional customers to your shop be sure you are ready to serve them. Some will want Sun-tang CONCENTRATED—others Niagara Blackcurrant. Eye-catching display material will assist sales.

**BARNETT & FOSTER LTD.**  
QUEENSBIDGE ROAD, LONDON, E.8. Tel.: CLissold 7132

**PURE CRYSTALLINE D3**

**Manufacturers:**  
**PEBOC LIMITED**

**Enquiries to SALES OFFICE  
629/630 TOWER BUILDING  
LIVERPOOL 3·ENGLAND**

**LABORATORIES  
GREENFORD · MIDDLESEX**

# for nasal decongestion

a new and  
unique formula



# Tyzanol\*

brand of tetrahydrozoline hydrochloride  
(2-(1,2,3,4-tetrahydro-1-naphthyl) imidazoline hydrochloride)

**Look to Tyzanol for nasal decongestion.  
Provides nasal patency in minutes  
for HOURS without taste or odour,  
sting or rebound congestion**

**Tyzanol** is a chemically and clinically unique nasal decongestant. Among 203 patients given TYZANOL relief was rapid and prolonged, rebound congestion or other local or systemic side effects were not observed, and a gratifying experience was reported in 99.5 per cent of cases.  
New York State J. Med., in press

**Tyzanol** is available in a combination pack — 10 cc. of an 0.1% aqueous solution and a glass nasal dropper.



WORLD'S LARGEST PRODUCER OF ANTIBIOTICS

PFIZER LTD • FOLKESTONE • KENT • Tel: FOLKESTONE 51771

\* Trade Mark Chas. Pfizer & Co. Inc.

February 26, 1955

**11,608,000 DAILY EXPRESS  
READERS WILL SEE THIS  
DRAMATIC HALF-PAGE  
FOR Pond's Cold Cream**

**T**HIS ATTENTION-GETTING and topical advertisement will appear on February 26th. *It is just one of the new series of Pond's Cold Cream advertisements appearing in the National Press this year.*

Because women today have been made so aware of the menace of grime, this campaign should gain new users for Pond's Cold Cream.

Make sure *you* get your share of increased sales by featuring Pond's display material (specially linked to the press advertisements) and by ordering sufficient stocks.

IN PHARMACEUTICAL  
Established

# KIRBY

1866



CIRCLES

*Are recognised as pre-eminent in  
the manufacture of*

# TABLETS

ALSO

PILLS · CAPSULES · PESSARIES · SUPPOSITORIES  
 PENICILLIN PRODUCTS · OINTMENTS FOR THE EYE  
 SOFT GLYCERINE LOZENGES · PACKED PHARMACEUTICALS  
 STERILE PRODUCTS

*Own materials processed • Special Formulae prepared*

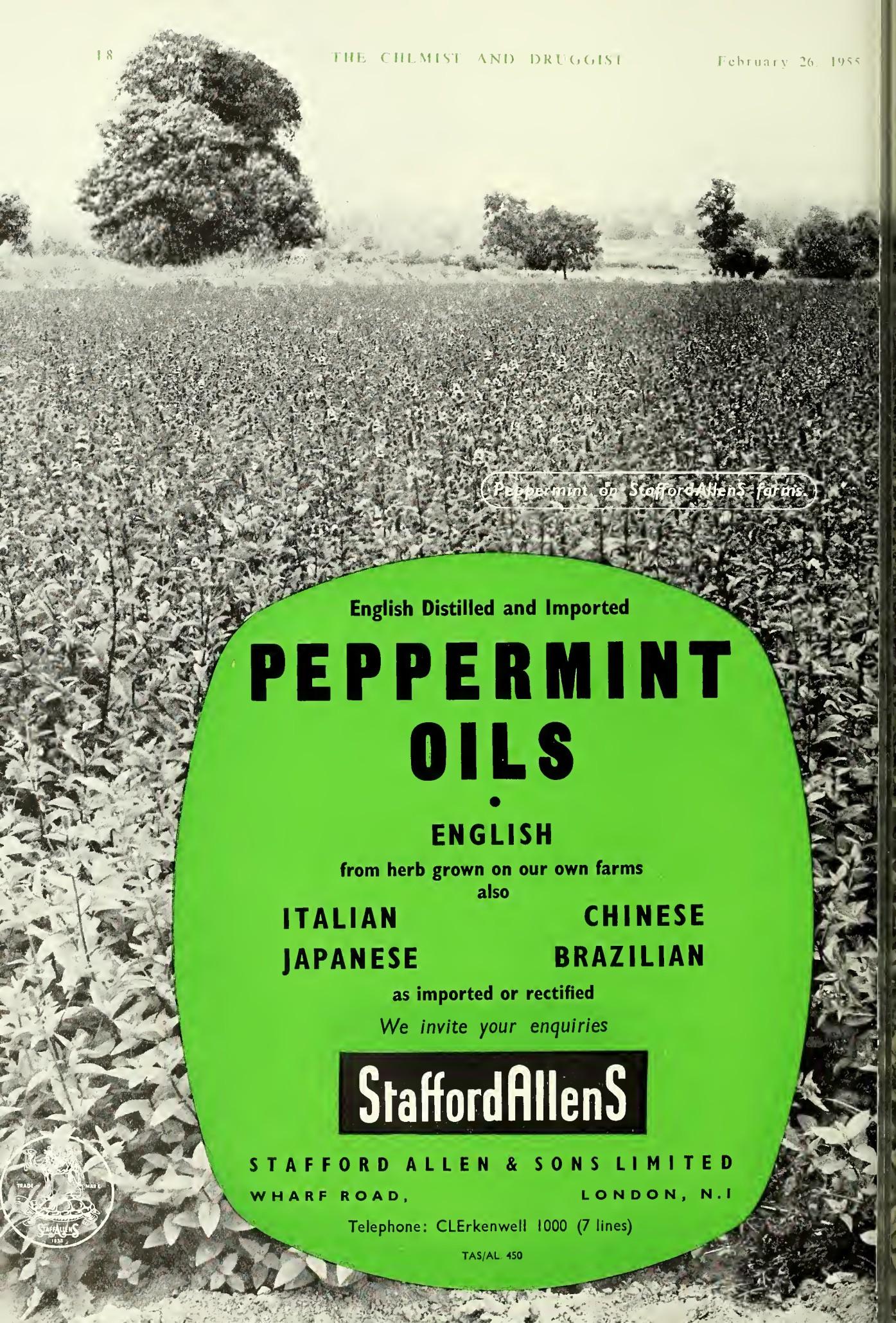
HOME AND EXPORT ENQUIRIES INVITED

*Price List forwarded on application to :—*

**H. & T. KIRBY & Co. Ltd.**

Manufacturing Chemists, WILLESDEN GREEN, LONDON, N.W.2

Phone : Willesden 1146      Telegrams : Kirbillim, Norphone, London      Code : Bentleys (2)



Peppermint on Stafford Allen's farms.

English Distilled and Imported

# PEPPERMINT OILS

•  
**ENGLISH**

from herb grown on our own farms  
also

**ITALIAN**

**CHINESE**

**JAPANESE**

**BRAZILIAN**

as imported or rectified

We invite your enquiries

# StaffordAllenS

STAFFORD ALLEN & SONS LIMITED  
WHARF ROAD, LONDON, N.1

Telephone: CLErkenwell 1000 (7 lines)

TAS/AL 450



# WRIGHT'S

## DOMESTIC AND GARDEN ANTI-PEST PREPARATIONS

**WRIGHT'S  
OFFER  
SPECIAL 12 FOR 11  
BONUS**

Free delivery in our van area  
Outside van area minimum order £2  
assorted carriage paid.



**FOR KILLING FLIES ★ MOTHS ★ SLUGS ★ BEETLES  
MOSQUITOES ★ ANTS ★ GREENFLY ★ WASPS ★ WEEDS**

**For sale by Chemists only!**

ATTRACTIVE SHOWCARD and COUNTER-DISPLAY LEAFLETS AVAILABLE

Preparation	All Purchase Tax Free	Per Dozen	Minimum Retail Price	Preparation	All Purchase Tax Free	Per Dozen	Minimum Retail Price
Ant Killer	Small Squeeze Drums	10/-	1/3	Lawn Weed Killer			
D.D.T. Anti-Moth & Insecticide Powder	Puffer Tins	7/-	10½d.	Selective 2 : 4-D Amine Salt	5 oz. fluid	24/6	2/9
	Small Squeeze Drums	8/9	1/2	Nicotine Spray 20% W/V	2 oz. fluid	16/3	2/-
	Medium Dredger Tins	12/6	1/9	Paradichloro-Benzene	4 oz. Containers	10/-	1/2
D.D.T. Insecticide Spray with Pyrethrum	5 oz. fluid	11/6	1/5		8 oz. Containers	15/3	1/9
	10 oz. fluid	17/6	2/1	Anti-moth	16 oz. Containers	26/6	2/10
	20 oz. fluid	29/3	3/6	Slug Killer	Small Containers	7/9	1/1
D.D.T. Wettable Powder Spray	Small Drum	11/6	1/5		Medium Containers	11/9	1/6
Derris Dust	Small Containers	7/3	1/-	Wasp Killer (Non-poisonous)	Small Drums	8/-	1/1
	Medium Containers	9/9	1/4				
Derris Liquid Water Spray	5 oz. fluid	20/6	2/6	Weed Killer	1 lb. Containers	19/3	2/2
					2 lb. Containers	34/9	3/10

**Send in your order now !**

the convalescent—  
the overworked—the aged  
**Good for them—**  
**Good for you**

EASY to take and easy to sell this fine glycerophosphate and strychnine tonic, with a pleasing aroma, is in constant demand throughout the year. This means good business for you so order now.

<i>Size.</i>	<i>Retail</i>	<i>Trade Price</i>
4 oz.	2/4½ a bottle (Inc. Tax)	14/6 doz. (P. Tax 3/7½d.)
8 oz.	4/1 ,,, (Inc. Tax)	24/6 doz. (P. Tax 6/1½d.)
16 oz.	7/3 ,,, (Inc. Tax)	43/- doz. (P. Tax 10/9d.)

JOHN BELL, HILLS & LUCAS, LTD., Oxford Works, Worsley Bridge Rd., London, S.E.26

## John Bell's TONIC PHOSPHATES



G & G



Model 101  
Retail price  
**69/6**  
Incl. Tax

**Unbeatable value!**

**Hinders**

## RADIARAY

**Infra Red and Radiant Heat Lamps**

are the answer to public demand for quality at prices within the reach of all

Attractively designed, soundly constructed from first-class materials, and beautifully finished, the wide range includes two Tax free Prescription models. **Quick Delivery Assured.**

Illustrated brochure available from Dept. 4. **Hinders Limited** 174/192 Estcourt Road, London, S.W.6 Est. 1919



*The bland cleansing action of*

# 'ETHISAN'

TRADE MARK

on the skin and on the scalp makes it of great value wherever skin lesions are present and soap is inappropriate. 'Ethisan' is neutral, pleasant and easy to use, and odourless. It is most effective in removing scurf, when it can be used in the same way as a shampoo.

Sodium lauryl sulphate B.P. (6.56 per cent.), 'Lanette' Wax SX (0.938 per cent.) in aqueous solution/suspension

In 4-oz. bottles, Retail price 3/- (including P.T.); 8-oz. bottles, Trade price 38/6 dozen (P.T. 9/7½ dozen); 80-oz. bottles, Trade price 22/6 each (P.T. 5/7½ each).

---

MENLEY & JAMES, LIMITED, COLDHARBOUR LANE, LONDON, S.E.5

ENTS4

Tel.: BRixton 7851



## WHITECROSS SUNGlass SALES BOXES

WHITECROSS  
OPTICAL COMPANY  
(LONDON) LTD.  
55 WHITECROSS STREET  
LONDON, E.C.1

Tel. MONarch 0114



**IMPORTERS AND SUPPLIERS  
OF  
PHARMACEUTICALS**

**SODIUM para AMINO SALICYLATE  
ISONICOTINIC ACID HYDRAZIDE  
FERROUS GLUCONATE  
NICOTINAMIDE  
GLYCINE**

**HALEWOOD CHEMICALS LTD.**  
111-115 EASTBOURNE MEWS  
LONDON, W.2  
AMBassador 4198-5457

*More and more people  
are changing to SELTO*

**SELTO SALES ARE SOARING!** Selto Dental Salt is a unique, well-balanced Dentifrice with a Sodium Chloride base, its value being professionally approved and recommended by Dentists everywhere. It is attractively packed in colourful plastic containers with refills available, or aluminium tins and obtainable from all leading wholesalers.



**SELTO**  
*Dental Salt*

Selto (Eastbourne) Ltd., Hampden Park, Eastbourne

# To Groats and Robrex a brother...

## The first ready-cooked rice for weaning

Sound a fanfare for a new arrival in the Robinson family! It's Baby Rice, the latest addition to the range of famous ready-cooked baby foods. And like Groats and Robrex, it's fortified with vitamins and minerals baby needs.

Baby Rice not only makes for safe and trouble-free weaning, but has a delicious creamy flavour which babies will love. That's why we are confident that mothers everywhere are going to welcome it with tremendous enthusiasm.

So look out for Ready-Cooked Baby Rice. In fact, do more than that—get your stock in right away. Strong national publicity will be supporting it in the leading papers—including the DAILY MIRROR and women's magazines—and there's an eye-catching crowner in gay colouring to help you still further. Baby Rice looks like being a real winner—in a market you can't afford to neglect!

## ROBINSON'S READY-COOKED **BABY RICE**

1s. 6d. a 6 oz. packet

KEEN, ROBINSON & CO LTD · CARROW WORKS · NORWICH

**Now! Ready-Cooked Rice!**  
Extra variety for baby with no extra trouble

**ROBINSON'S Baby Rice**  
FOR CHILDREN'S NURSING & FEEDING  
for sturdy growth and contented feeding

**NATIONAL & MAGAZINE ADVERTISING**

As last—here's real rice made specially as a weaning food! It's Robinson's Ready-Cooked Baby Rice. Baby Rice is ready-cooked rice in cereal form with added vitamins and minerals essential for babies. As a weaning food, it's the diet easiest to satisfy baby's needs. Then in the time to introduce this new nourishing cereal, which will also help to provide the all-important variety he needs during the weaning period. Baby Rice is a delicious cereal such as marmalade, too. And Baby Rice (like all the Robinson's ready-cooked baby foods) is ready in an instant. All mother has to do is stir it into warm and sweetened (boiled) milk. Come along, mother... give baby a treat!

**ROBINSON'S ready-cooked BABY RICE**  
BY THE MAKERS OF GROATS AND ROBREX

**DALMAS**  
PLASTER  
**WATERPROOF**  
**FIRST-AID DRESSINGS**

### This Little Fellow ...

will bring you more business. He's making sales for DALMAS WATERPROOF DRESSINGS (the ones in the blue box). He is appearing regularly in the National Press and a delightful showcard is available on request.

### Display to Sell **DALMAS**

Made by DALMAS LTD., LEICESTER & LONDON. Est. 1823

for the service behind  
your service



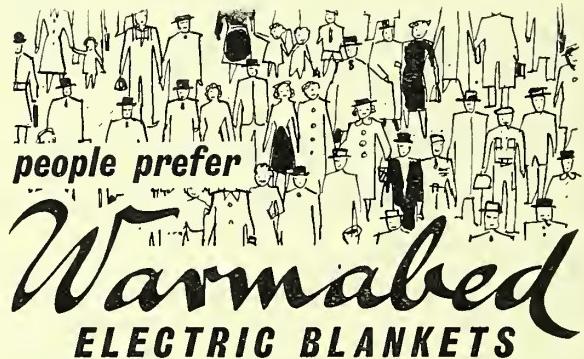
### **SUMNER'S**

- ★ DRUGS
- ★ GALENICALS
- ★ DRESSINGS
- ★ INSTRUMENTS
- ★ PROPRIETARIES

### **R. SUMNER & CO.. LTD.**

HANOVER STREET, LIVERPOOL. TEL: ROYAL 6644  
FITZALAN ROAD, CARDIFF. TEL: CARDIFF 32696

SV17



**because** of their superior construction and unfailing reliability—**because** they are of 100% pure wool in lovely pastel shades and of course, because they carry the Good Housekeeping Seal of Efficiency.

#### SALES AIDS

Ask for list of window displays, P.V.C. stickers, Showcards, Posters and Folders available for every Stockist.

#### NATIONAL ADVERTISING

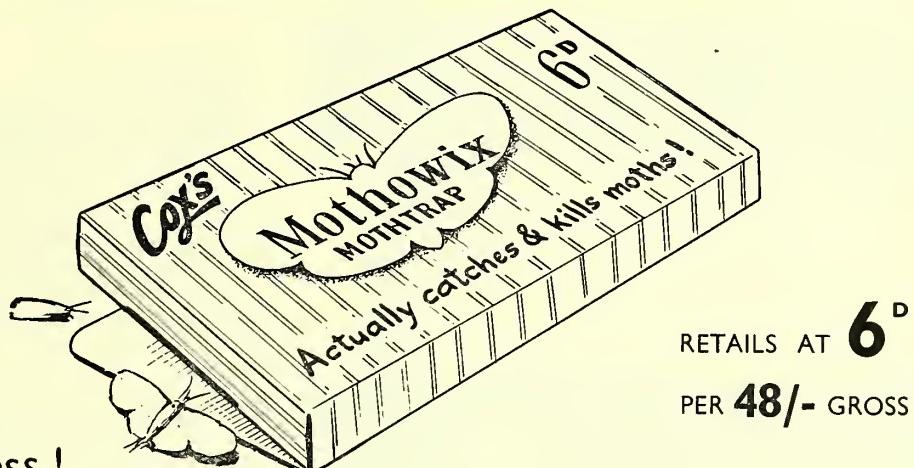
Will continue to increase the demand for Warmabed Electric Blankets.

Write for Catalogue and trade terms

**MODERN ELECTRICAL INDUSTRIES LTD.**  
KNOTTINGLEY, YORKSHIRE

Tel.: Knottingley 51. Grams and Cables. "Warmabed, Knottingley"

# "MOTHOWIX" MOTHTRAP



★ Odourless !

★ Actually catches and kills moths !

order with

*Cox's*

THE ORIGINAL

## D.D.T. FLYCARDS

<b>Cox's 3d. D.D.T. FLYCARDS (THE ORIGINAL)</b>	...	<b>24/- PER GROSS</b>
<b>Cox's 3d. D.D.T. CHIMPS...</b>	...	<b>24/- .. ..</b>
<b>Cox's 4d. D.D.T. PARROTS</b>	...	<b>32/- .. ..</b>
<b>Cox's 4d. D.D.T. ROSE BASKETS</b>	...	<b>32/- .. ..</b>
<b>Cox's 6d. MOTHOWIX MOTHTRAPS</b>	...	<b>48/- .. ..</b>

LESS 2½% MONTHLY ACCOUNT

## BONUS TERMS — 10% ON ORDERS FOR 3 GROSS

THIS OFFER APPLIES TO ORDERS FOR FLYCARDS AND MOTHOWIX  
IN ANY ASSORTMENT

JAMES COX & CO., D.D.T. WORKS, STH. HARROW, MIDDLESEX. Telephone: BYRON 4326

**Best news of all . . .**

**NEW**

# Blue Star

the Santowel designed by  
women for themselves

CREATED BY

# Southalls

makers of the original  
sanitary towels

*For the . . .*

## EXTRA ENERGY

*... that helps to make  
CHAMPIONS*  
**Simpkins**



THE ORIGINAL GLUCOSE TABLETS

USED BY LEADING COMPETITORS IN EVERY SPORT

In 4 delicious flavours

10<sup>D</sup>  
PKT

The perfect Santowel combines all the essential features demanded by women themselves. For the first time here is a non-soluble santowel completely chafeproof, completely protective and completely comfortable during use. Southalls make BLUE STAR in popular sizes in packets of 1 dozen—Size 1 at 2/- Retail (Trade 18/8 per doz.) and Size 2 at 2/6 Retail (Trade 23/5 per doz.)

**Self-Service Dispenser** for shop or counter and a new eye-catching Window Display Unit, both featuring the distinctive BLUE STAR showcard that is going to create a big demand.

*Ask our representative for  
details of all Point-of-Sale material.*

*Be ready to meet the demand —*

**Order Blue Star today  
from your wholesaler!**

*A household name  
... a steady seller*

**Dr. Williams  
Pink Pills**

Year after year this popular Iron Tonic has brought steady profit to chemists all over the country. It still retains its reputation of being the ideal restorative for blood and nerves, providing pure medicinal Iron in its most assimilable form. Selling at 1/8 and 3/9½, Dr. Williams Pink Pills are a profitable line to stock and display. Obtainable from every wholesaler.



*Also order Handjoy*



*Sales rapidly growing because it answers a housewife's problem—removes vegetable and fruit stains from the hands and kills onion smell. HANDJOY'S novel purpose appeals on sight, and sales quickly spread by customer-recommendation. I.r.p. 2/6 per jar. From wholesalers.*

Mixed Parcels of both these lines available direct from  
G. T. Fulford Co. Ltd. (of Canada), Hatch End, Mdx.

# Two NEW Leaflets



The use of 'Distafeed' products means healthier stock and more profit through the economical use of feeding stuffs. These two new leaflets tell just how and why it pays to 'Distafeed'.

These leaflets are freely available for distribution to your customers. For a supply complete this coupon and send it to the address below.

Please send me a supply of your leaflets "It pays to 'Distafeed'" and "'Distafeed' Penicillin Supplement".

Name ..... Address .....

or fix your slip label here.

**THE DISTILLERS COMPANY**

(Biochemicals) **LIMITED**

Devonshire House, Piccadilly, London, W.1

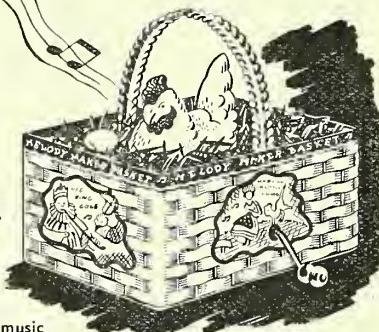
## NORTON'S LEAD AGAIN IN NOVELTY SOAPS!!!

*Melody Maker  
Basket that  
will SING its  
own praises*

### A SELL-OUT SOAP NOVELTY for EASTER

A beautifully moulded, hand painted Chicken with eggs made from purest TOILET SOAP sitting in Melody Basket. Turn the handle and hear the music. A durable toy with an unbreakable music movement.

Ask your wholesaler for full information and price list.



7/- RETAIL PRICE

ORDER NOW — DELIVERY AS REQUIRED  
Or write to:

**M. & R. NORTON LTD.** Tel. Macaulay 2355/6  
ADRIANT WORKS • 9 PARK HILL • LONDON, S.W.4

*Help yourself to  
bigger sales with  
**YESSTAMIN***



When you stock Yestamin you have two important factors working for your sales—increasing demand for dried yeast and the extended Yestamin advertising campaign in the foremost national dailies and women's magazines. These reasons coupled with quick turnover and generous profit margins make it pay to stock and display Yestamin—the pure dried yeast tablets that sell.

50 TABLETS  
Retail 1/3 Trade 10/6 per dozen

100 TABLETS  
Retail 1/10 Trade 15/9 per dozen

300 TABLETS  
Retail 4/9 Trade 40/- per dozen

**YESSTAMIN**

DAILY YEAST

THE ENGLISH GRAINS CO. LTD., SHOBNALL ROAD, BURTON-ON-TRENT

## TRUST ALL your takings to the 3-WAY PROTECTION of the VIGILANT

2-TOTAL Model No. 132(7)2 For the Pharmaceutical Trade

(IMMEDIATE DELIVERY)

5 YEARS GUARANTEE ★ MADE IN DUNDEE

- 1** BOLD, white on black, wide angle INDICATION — reading left to right, front and rear.
- 2** AUTOMATIC, PERMANENT RECORD of all transactions: Last 9 items always visible.
- 3** AUTOMATICALLY PRINTED CUSTOMERS PURCHASE CHECK

Designed to PROTECT & built to ENDURE

**THE NATIONAL CASH REGISTER COMPANY Ltd.**

206-216 Marylebone Road, London, N.W.1, and all principal business centres



**ENDING MARCH 17<sup>TH</sup>**  
**DON'T MISS THIS AMAZING**



*Two-in-one*  
**BONUS OFFER**

**THESE BIG CASH BONUSES IF  
 ORDERED BEFORE MARCH 17<sup>TH</sup>**

**HERE'S WHAT YOU GET...** (Just to remind you of the wonderful, profit-making opportunities contained in the Tek broadsheet you have already received).

- \* 7½% cash discount on orders of 6 to 11 dozen—PLUS AN OPTIONAL OFFER of 3 dozen Nylon at the special price of 12/- per dozen, giving you another 10% extra profit on Tek Nylon standard terms!
- \* 12½% cash discount on orders of 12 to 23 dozen—PLUS AN OPTIONAL OFFER of 6 dozen Nylon at the special price of 11/5 per dozen, giving you another 14% extra profit on Tek Nylon standard terms!
- \* 17½% cash discount on orders of 24 dozen and over—PLUS AN OPTIONAL OFFER of 12 dozen Nylon at the special price of 10/6 per dozen, giving you another 21½% extra profit on Tek Nylon standard terms!

**ORDER *Tek* NOW FOR BIGGER TOOTHBRUSH PROFITS THAN EVER BEFORE!**

Use the special Bonus Order Form from the Tek Broadsheet. Or use your own order form. The important thing is to order now!

*Johnson & Johnson* (GT. BRITAIN) LTD., SLOUGH, BUCKS

# Ephedrine Alkaloid B.P.

EPHEDRINE ALKALOID ANHYDROUS B.P.C.  
 EPHEDRINE HYDROCHLORIDE CRYSTALS B.P.  
 EPHEDRINE HYDROCHLORIDE POWDER B.P.  
 EPHEDRINE SULPHATE B.P.C.



*the name* *Knoll* *signifies*

65 YEARS OF EXPERIENCE IN THE  
 MANUFACTURE OF HIGH CLASS CHEMICALS  
*guarantees*  
 PRODUCTS OF ABSOLUTE PURITY  
 AND UNVARYING QUALITY

MARKETED BY

*Alwitt* TRADING COMPANY LTD.

I BROAD STREET PLACE, LONDON, E.C.2.

Tele : London Wall 7966 (5 Lines).

Grams : Wosmater Ave., London.

Cables : Wosmater, London

**YOU have until 12th MARCH  
to TAKE ADVANTAGE  
OF THIS OFFER!**

Already a firm favourite in Scotland and Ireland

# FERGUZADE

*the Supreme GLUCOSE Beverage*

*is now obtainable in ENGLAND!!*

Ferguzade replaces lost energy, deliciously and its high GLUCOSE content—26.5% W/V—plus the NATURALLY Pure Spring Water of Strathmore Springs with which it is prepared make FERGUZADE supreme, and a product you can recommend with confidence.

### PROFIT

Contrary to common belief, high quality in this instance, is not divorced from attractive profit margins. Compare the following with the terms of any competitive line.

1-5 dozen shows ...	28%	12 dozen shows ...	35%
6-11 " "	31.6%	60 " "	36.6%

Consumer price: 2/6 per bott. plus 3d. bott. deposit (returnable)

### EXTRA PROFIT

For a limited period we offer you EXTRA PROFIT in the form of an

### Introductory BONUS

of 13 to the dozen on all orders received before SATURDAY, 12th MARCH

**Send Your Order To-day!**

to any one of the following

### DISTRIBUTORS TO CHEMISTS IN ENGLAND

**SANGERS LTD.,**  
258 Euston Road, London, N.W.1.

**SOUTHALL BROS. & BARCLAY LTD.,**  
Priory House, Gooch Street, Birmingham 5.

**BROOKS & WARBURTON LTD.,**  
232-242, Vauxhall Bridge Road, London, S.W.1.

**JOHN THOMSON LTD.,**  
27-35 Duke Street, Liverpool 1.

**THE CHEMISTS' SUPPLY CO. LTD.,**  
127 Malmesbury Park Road, Bournemouth,  
Hants.

**MAY, ROBERTS & CO. LTD.,**  
47 Stamford Hill, London, N.15.

**HIRST BROOKE GOODALLS LTD.,**  
Sheepscar Street, South, Leeds 7.

**MAY, ROBERTS & CO. LTD.,**  
67-73 Duke Street, Liverpool 1.

**SANGERS LTD.,**  
45 Wilder Street, Bristol 2.

**MAY, ROBERTS & CO. LTD.,**  
George Place, Stonehouse, Plymouth.

**SANGERS LTD.,**  
46-50 Elswick Road, Newcastle-on-Tyne 4.

**FRANCIS NEWBERY & SONS LTD.,**  
Taffs Mead Embankment, Cardiff.

**FERGUZADE LTD. Strathmore Springs, Forfar, Scotland**



# Big National Campaign to sell

## GAYELORD HAUSER WONDER FOODS



A widespread advertising campaign is now telling the whole story of Gayelord Hauser's amazing 'look younger, live longer' regime—and selling the special 'wonder foods' he recommends. Look out for advertisements throughout the spring in leading National papers and magazines.

Already there's a great deal of interest in Gayelord Hauser's methods—to judge from the enormous number of enquiries we've been getting. Now they'll be coming straight to you. So be ready . . . with a good supply of the wonder foods . . . with showcards and crowners for window or counter . . . and with a stock of the free booklet, "Be Happier, Be Healthier" which everybody will be asking for.

Dried Skim Milk . . . . .	4s. 10d.
Brewers' Yeast Powder . . . . .	6s. 6d.
Brewers' Yeast Tablets . . . . .	25s. 6d.
Wheat Germ . . . . .	4s. 6d.
Black Molasses . . . . .	4s. 6d.
Vegisalt . . . . .	2s. od.

### A page in Vogue →

and advertisements in all these papers:

Daily Telegraph  
Sunday Times  
Vogue  
Woman and Beauty  
Reader's Digest  
Lady  
Woman's Illustrated

Observer  
English Speaking World  
Woman's Journal  
Queen  
Country Life  
Tatler

To help you sell the wonder foods, we have prepared the gay coloured showcards and crowns (right) to add a final sales touch to the handsomely designed tins.

*All stocks and display material are obtainable from:*

**W. B. CARTWRIGHT LTD., RAWDON, LEEDS**  
Telephone: Rawdon 713-4-5-6

**Y**our youth is as long as you make it — THE GAYELORD HAUSER WAY

A famous hostess once said to Gayelord Hauser, "I have originated modern styles in clothes and decoration. You have originated the modern manner of eating."

She knew what she was talking about. For by his books and teaching, Gayelord Hauser has changed the dietary habits of a generation. He discovered that not only your health, but your whole appearance and vitality depend on what you eat. There is a direct connection between your diet, and how young you look and feel.

### Eating does it



But don't be alarmed. There is no need to subject yourself to any rigorous dietary discipline. It is only important to make sure that certain vitamins and proteins are added to your daily diet. Eating, says Gayelord Hauser, should be fun. And his system, which shows you how to balance your diet, is fun to follow and fine in effect. He has many, many delicious recipes, many ways of preparing food so that you get the maximum of pleasure and the maximum of benefit from what you eat.

### Food for thought

Just think for a minute about your food. You personally don't need to know the exact calorific value of everything you eat—but you do need to make sure that your body gets enough of the vitamins and minerals and proteins that it needs to re-create itself from day to day. And if you take care of it, if you follow the Gayelord Hauser system, there is no reason why in the future you should not be as lovely and as vital as you were at thirty.

### What are the wonder foods?

After years of research, Gayelord Hauser discovered that certain essential food elements were not easily obtained in most normal diets. By adding these wonder foods to your ordinary diet, you can make up these deficiencies.

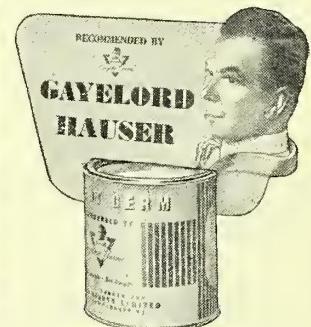
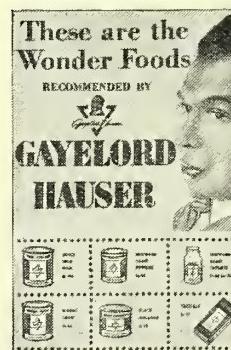


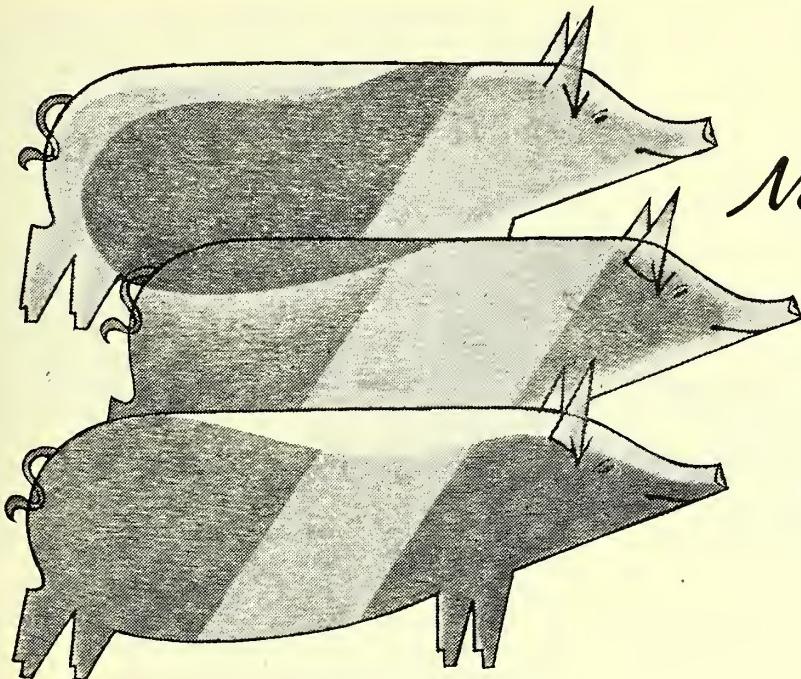
made by Gayelord Hauser have vitamins A and D. You can eat them for the fat content but enjoy all the energizing virtues of fresh fruit and vegetables. (1) Brewers' Yeast. It contains essential proteins and vitamins—especially B complex. (Powder—6s. 6d per 16 oz. tin.) (2) Wheat Germ. Rich in protein, vitamin E and the B vitamins and iron. Use in soups, on salads or in baking. (4s. 6d per 12 oz. tin.) (3) Dried Skim Milk. This is rich in fat-free protein, calcium and vitamin B. The special Skim Milk Powder recom-

mented by Gayelord Hauser has half the vitamins A and D. You can eat it for the fat content but enjoy all the energizing virtues of fresh fruit and vegetables. (1) Brewers' Yeast. It contains essential proteins and vitamins—especially B complex. (Powder—6s. 6d per 16 oz. tin.) (2) Wheat Germ. Rich in protein, vitamin E and the B vitamins and iron. Use in soups, on salads or in baking. (4s. 6d per 12 oz. tin.) (3) Dried Skim Milk. This is rich in fat-free protein, calcium and vitamin B. The special Skim Milk Powder recom-

### And so easy

Gayelord Hauser combines good, honest common sense with years of research and study. Try his methods for a month and just see the difference. The Gayelord Hauser foods are obtainable from all good grocers and delicatessen dealers. Timothy, White and Hoppard and there's a booklet called "Be Happier—Be Healthier". Ask your chemist for a copy or write to us enclosing 2/4 stamp and we'll gladly send it to you. The address is Life & Beauty Ltd., Dept. No. 12, S. Avery Row, London, W. 1.





*Now available*  
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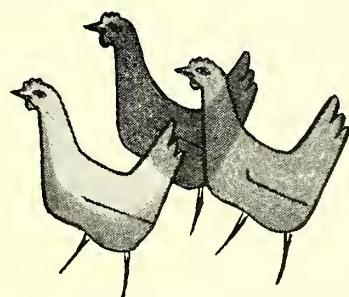
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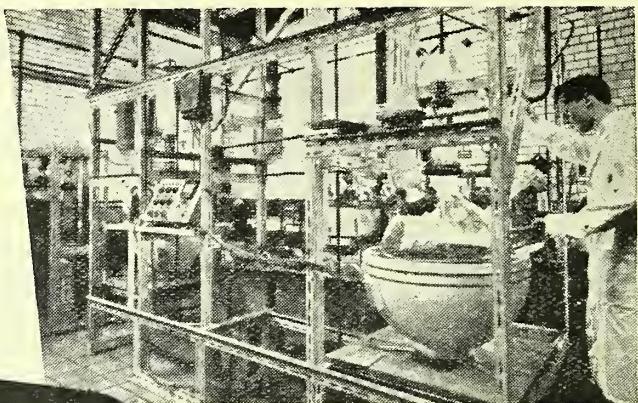
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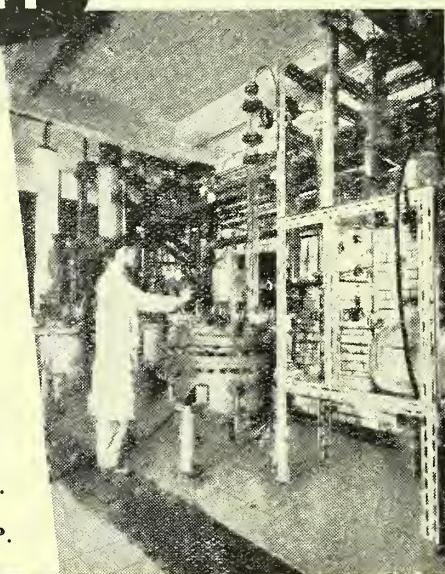
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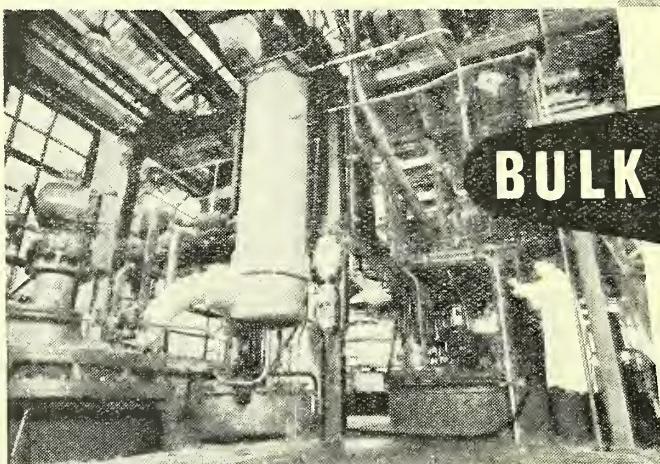


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# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 163

February 26, 1955

No. 3914

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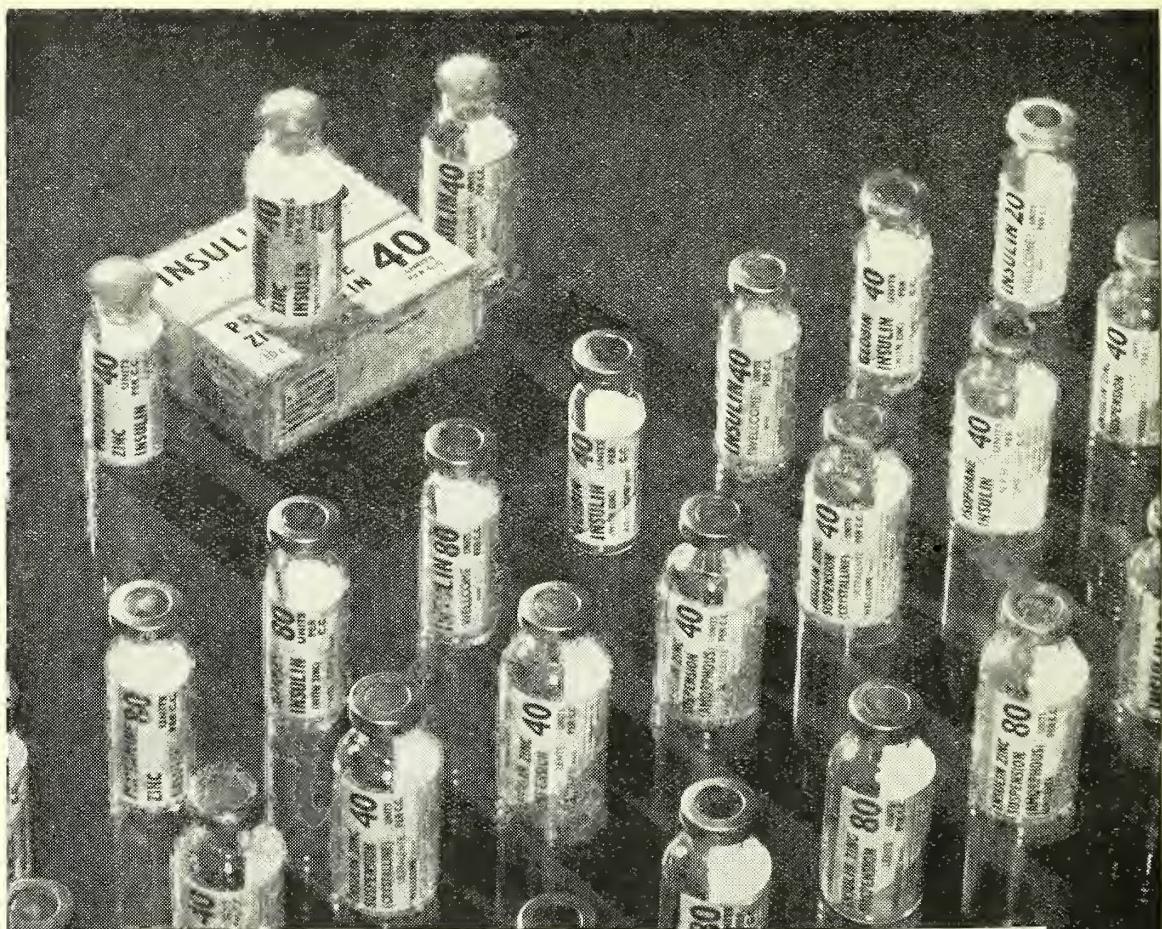
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The

# CHEMIST AND DRUGGIST



Volume 163

FEBRUARY 26, 1955

No. 3914

## Child's Death from Mercury WRONGLY LINKED WITH PROPRIETARY

THE death of an eleven-month old baby from pink disease was wrongly assumed by doctors to be attributable to mercury alleged to have been contained in Steedman's teething powders.

That was stated on behalf of John Steedman & Co., Walworth, London, S.E.17, at the resumed inquest on the child on February 21. At the previous inquest on February 7, the child's mother had stated that she had given the baby Steedman's teething powders, and the coroner recalled two previous deaths of Stoke-on-Trent children after being given teething powders. At the resumed inquest it was established that the child's death was due to pink disease caused by grey powder tablets which had been prescribed by a doctor. THE CORONER said it was an "unfortunate error that at the previous hearing the circumstances seemed to call for a warning about a drug which apparently caused pink disease." For Messrs. Steedman it was stated that the company went to great trouble to call in all old-type teething powders and the actual replacement and exchange cost them £16,000. The coupling of the child's death with Steedman's teething powders had done a great deal of damage, and they had been deluged with letters even from the Continent. It was suggested that the doctors concerned took it for granted that Steedman's powders were involved in the baby's death before they had made full inquiries.

### Chemists Federation

#### MEETING OF COUNCIL

A MEETING of the Chemists Federation council was held in London on February 3. Meetings of committees were held the previous day. The following companies have been re-elected to represent manufacturers on the council for a period of two years ending January 31, 1957:—Allen & Hanburys, Ltd.; Evans Medical Supplies, Ltd.; Meggeson & Co., Ltd.; Parke, Davis & Co., Ltd. Ayrton, Saunders & Co., Ltd., and May, Roberts & Co., Ltd., have been re-elected to represent section A wholesalers. Mr. A. G. Moss has resigned from the council owing to other business commitments and the National Pharmaceutical Union Executive has appointed Mr. F. G. Wells to fill the vacancy. Messrs. P. D. J. Spaanderman and S. J. Stearn were re-appointed for the two years ending January 31, 1957. The following officers of the Federation were elected for the twelve months ending January 31, 1956:—President, Mr. P. D. J. Spaanderman; Vice-president, Mr. G. E. Mann; Treasurer, Mr. K. G. Patteson; Trustees, Messrs. R. C. Feather and S. J. Stearn. The council

approved the following additions to the C.F. List:—Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester (all proprietary pharmaceutical preparations); Solo Orchards, Ltd., Totteridge Lane, London, N.20 (Solo vitamin C orange crush); Southon Laboratories, Ltd. (Esoban barrier cream). Renoufs, Ltd., 45 Don Street, Jersey, Channel Islands, having ceased to trade, Chandis Co., 5 Great Union Road, Jersey, were appointed as approved C.F. wholesalers.

## Hospital Queues Protest

#### A CHIEF PHARMACIST REPLIES

A LETTER recently published in the *Daily Mail*, complaining of the length of time out-patients were kept waiting for medicines at hospital pharmacies has been replied to through the columns of that newspaper by Mr. T. D. Whittet (chief pharmacist and lecturer in pharmacy, University College Hospital, London). The original letter complained that "patients from every clinic converge upon rows of benches which are filled practically all day long, and as only one small window usually is open, the hold-up becomes intolerable" and "to add to the inconvenience, dispensers work only office hours." The writer suggested that "simple things like gargles, eye-lotions, iodine and the rest could be given out at a separate window, clearly marked." Mr. Whittet's reply states that "the major difficulty is shortage of pharmacists. If vacancies have to be filled by unqualified persons, such as dispensers and students, all their work has to be checked by the few remaining pharmacists, thus causing



PORSCMOUTH LADIES' FESTIVAL: Members and guests of the Portsmouth Chemists' Association at their third annual ladies' festival held on February 10.

delay. Modern drugs are so potent that a serious error in dispensing may lead to dangerous or even fatal consequences; hence delay, although regrettable, is preferable to rushed and inaccurate work. The suggestion that simpler preparations should be given out at a separate window is hardly practicable. The patient is not often in a position to know whether his medicine is a simple one or not. In most large hospitals the pharmacy is open until 7 or 7.30.

## Wine Licences

### LOCAL APPLICATIONS

AT local licensing sessions recently the following applications for wine licences were granted:—Mr. M. H. Ashworth, M.P.S., 265 Oldham Road, Rochdale, Lancs; Mr. J. Dodsworth, M.P.S., 251 Rooley Moor Road, Rochdale, Lancs; Mr. R. Morrell, M.P.S., 4 Edwards Avenue, Shavington, Ches; Mr. C. B. Sutherland, M.P.S., 560 Main Road, Dovercourt, Essex; and Mr. B. B. Wade, M.P.S., 40 Highgate, Heaton, Bradford, Yorks. Licences to sell medicated wines only were granted to Mr. A. L. Caller, M.P.S., 33 Commercial Street, Cwmbran, Newport, Mon; Congleton Equitable and Industrial Co-operative Society, Ltd., 68 High Street, Bidulph, Staffs; Mr. R. S. Cowin, M.P.S., 112 Short Street, Stappenhall, Burton-on-Trent, Staffs; Mr. A. W. Dobbs, M.P.S., The Pharmacy, Herstmonceux, Sussex; Mr. D. S. Evans, M.P.S., 4 Beech Road, St. Albans; Mr. R. G. Heydon, M.P.S., Nantwich; Mr. H. A. Pringle, M.P.S., 1 High Street, Torrington; Taylors (Cash Chemists), Midland, Ltd., Bristol Street, Birmingham; Mr. G. Williams, M.P.S., 346 Llangyfelach Road, Brynhyfryd, Swansea. The following applications for full wine licences were refused:—Mr. D. Bell, M.P.S., 453 Dunstable Road, Luton; Mr. F. Brabbing, M.P.S., 4 The Parade, Blacon, Chester; Mr. R. J. Hayhurst, M.P.S., Bolton Road, Blackburn; Mr. Ivor Lawson, M.P.S., 141 Guide Lane, Manchester; and Mr. Louis Mossop, M.P.S., Accrington Road, Blackburn. Applications by Mr. L. H. A. Green, M.P.S., Kimberley, Notts and the Taibach and Port Talbot Co-operative Society, Ltd., were adjourned.

## Athletic Training

### MEDICINES PLAY NO USEFUL PART

DELIVERING the fourth Crookes lecture recently on "Athletic Training Past and Present," Sir Adolphe Abrahams, O.B.E., M.D., F.R.C.P., told his audience (which included many famous athletes) that drugs and medicines were not indicated in athletic training. "Tonics and strengthening medicines" were usually figments of the imagination yet there was always the craving for the mysterious; the belief that there must be something which would create energy, or postpone fatigue. But there was nothing, however, that could be regarded as active and yet safe and legitimate. The athlete, especially the highly strung athlete, was an impressionable and suggestible person. The speaker had seen remarkable results with perfectly inert mixtures which could not possibly have produced the results in less impressionable subjects. If there really were drugs that could stimulate to exertion beyond the normal limits of fatigue set by the body, they should be strictly forbidden. It was fully recognised that a certain minimal quantity of the vitamins was essential to health. We are still rather uncertain as to what may or may not be the capacity of a superfluity of vitamins to produce this enhanced athleticism, said Sir Adolphe. One group of investigators found remarkable effects from the administration of vitamin B, and to a lesser extent other vitamins. But, unhappily, another group had failed to identify any advantage whatsoever.

## Service Personnel

### USE OF N.H.S. FACILITIES

A CIRCULAR recently issued by the Ministry of Health on the use of National Health Service facilities by service personnel, states that such personnel temporarily living away from their units may be supplied with medicines on forms EC10. Prescription charges will be payable in respect of medicines, etc., dispensed or supplied, but a receipt on Form EC57 should be given on request so that the recipient can, if he wishes, take up the question of refund, with the service unit. It has also been agreed that at service stations

where in particular cases the provision of drugs from service sources is not possible, doctors prescribing for servicemen, and, in some cases, for their dependants, may use the existing machinery of the National Health Service for the dispensing and pricing of prescriptions. For that purpose special service prescription forms similar in lay-out but different in colour from those used in the National Health Service, will be used. It has been agreed that chemist-contractors will dispense prescriptions on those forms and submit them for pricing in the usual way. The shilling levy or other charges will be payable on those forms.

## London Chemist Golfers

### ANNUAL MEETING

AT the annual meeting of the London Chemists' Golfing Society on February 16, the following officers were elected for the ensuing year:—President, Mr. C. H. Maile; Captain, Mr. G. T. Morrison; Vice-captain, Mr. B. F. Tisdall; Secretary and Treasurer, Mr. A. S. Jerwood. The annual report and accounts for the year ended December 31, 1954, were adopted and arrangements for the coming season discussed. Membership of the Society is open to all pharmacists and those directly connected with wholesale and manufacturing pharmacy. Particulars from the secretary, 47 Gray's Inn Road, London, W.C.1.

## N.H.S. Costs

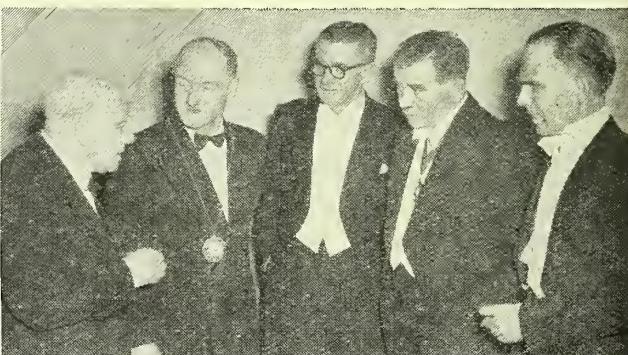
### CIVIL ESTIMATES, 1955-56

THE vote on account for 1955-56 presented to Parliament on February 21 shows that the National Health Service in England and Wales is estimated to cost £411,086,215, an increase of £22,021,530. In Scotland the N.H.S. will cost, it is estimated, £52,284,040, an increase of £2,133,240.

## Dangerous Drugs

### DOCTOR'S AUTHORITY WITHDRAWN

THE Home Secretary has withdrawn from Mr. George Norman Reed, M.B., Ch.B., 34 Yarborough Road, Grimsby, Lincs, from February 15, authority to possess, supply or give prescriptions for Dangerous Drugs.



WEST IRELAND CHEMISTS' DINNER-DANCE : Left, a group with, in the front row, the mayor of Galway (Mr. P. Greene), the President of the Pharmaceutical Society of Ireland (Mr. M. Costello) and Mr. J. F. Costelloe, Galway (a former president of the Society and former mayor of Galway). Also in the group are Mrs. M. Costello, Mr. H. P. Corrigan, Galway; Kilgarriff, Tuam; McGoldric, Galway; the Misses M. Gibbon and M. Hynes and Mr. Walsh, Crossmolina. Right, Messrs. William Adamson, Ballina; P. Greene (Mayor of Galway); J. F. Costelloe, M. Costello and K. Bowman.

(Picture, Connacht Tribune, Galway)

West of Ireland Chemists' Association (Mr. Kevin Bowman), the president of the Society and former mayor of Galway (Mr. M. Costello) and Mr. J. F. Costelloe, Galway (a former president of the Society and former mayor of Galway). Also in the group are Mrs. M. Costello, Mr. H. P. Corrigan, Galway; Kilgarriff, Tuam; McGoldric, Galway; the Misses M. Gibbon and M. Hynes and Mr. Walsh, Crossmolina. Right, Messrs. William Adamson, Ballina; P. Greene (Mayor of Galway); J. F. Costelloe, M. Costello and K. Bowman.

**IRISH NEWS****East Down Chemists****SECOND ANNUAL DINNER**

THE second annual dinner of the East Down Chemists' Association was held at Newcastle on February 16, Mr. W. J. Thornton (chairman of the Association) presiding. Principal guests were Dr. W. J. Hanna (president, Downpatrick Medical Association), Drs. Gibson and Moore, Messrs. W. H. Boyd and W. S. Hall (president and vice-president, Ulster Chemists' Association), M. C. Mooney (hon. secretary, Ulster Chemists' Association), J. Caldwell, Miss A. E. Strachan (secretary, Ulster Chemists' Association), Messrs. A. W. Kernahan (pharmaceutical officer, Northern Ireland Health Board), J. Russell and C. Ritchie (Thos. McMullan & Co., Ltd.). THE CHAIRMAN welcomed the guests and expressed regret at the absence, owing to illness, of the treasurer (Mr. D. Moore). MR. W. H. BOYD congratulated the East Down chemists on their excellent numbers and vigorous Association. He said that the strength of the Ulster Chemists' Association lay in the local Associations, and stressed their value in bringing about a better understanding between their own members and between provincial and city members. He wished the Association continued success. A programme of entertainment followed.

**Pharmacy Pilgrims****1955 LOURDES PROGRAMME**

THE Irish pharmaceutical pilgrimage to Lourdes is leaving Dublin, via Dun Laoghaire, on the evening of August 2, arriving at Lourdes on August 4. It will leave again on August 18, arriving back in Dublin on August 20. The entire cost of travel and a full fortnight in Lourdes ranges from £44 to £47 (travelling third class throughout) or about an extra £9 if the trip is made by air. For those travelling by rail and boat a deposit of £3 is required, with the balance paid by June 1, and for air travel a deposit of £10 with balance by May 15. As membership is limited early application for places should be made (enclosing stamped addressed envelope) to the secretary, Pharmaceutical Pilgrimage, 69 Palmers-ton Road, Dublin.

**Chemists' Club Dance****PROCEEDS FOR NEW PREMISES**

PROCEEDS from the twenty-seventh annual dance, held recently by the Pharmaceutical Chemists' and Students' Club Foundation Committee are going towards the provision of club premises in Dublin. Among about 400 present were Mr. M. Costello (president of the Pharmaceutical Society), Messrs. D. J. Murphy (president, Irish Drug Association), P. F. McGrath and H. P. Corrigan, Dr. Eoin Dowling, Messrs. C. Collis, T. B. O'Sullivan, O'Connell (Rugby Club), and S. Quinn (Gaelic Athletic Association Club), Miss H. Eastwick (Camogie Club), Messrs. T. O'Keefe, S. T. McCauley, E. Attwool, Power, St. Clair Gallagher, and G. Dawson. A number of spot prizes were awarded during the evening.

**TOPICAL REFLECTIONS**

By Xrayser

**Higher Mathematics**

My capacity for mathematics is only average. I am not, like Major-General Stanley, equipped with a clear understanding of equations, both the simple and quadratical, nor could I vie with that doughty warrior in affirming that I'm very good at integral and differential calculus. Few subjects have given the mathematician more joy than the statistics of the Health Service. Every week we are bombarded with averages and net costs per head, and ever and anon the Ministry of Health, or the Department in Scotland, takes the opportunity of discussing costs with the bewildered physician. It is, therefore, with a public acknowledgment of my deficiencies in binomial theorem and the square on the hypotenuse that I enter the lists. I have seen a copy of the "Costs of some Commonly Prescribed Drugs" (p. 195) issued to doctors in Scotland, and have spent some time trying to reconcile the figures therein contained with the principles of the Scottish Drug Tariff. Dispensing fees in Scotland are designed to bring out an average of 1s. 6d. per prescription, and I understand that if any factor causes that figure to be upset, alterations to the table of fees must be made to restore the average. That being so, it puzzles me to see why the Department should have shown a figure that is the sum of the ingredient cost, together with oncost, container charge and dispensing fee. Calculated in that manner, certain proprietaries appear cheaper than their equivalent solely because of the smaller dispensing fee carried by the former. I imagine that the significance of this will not be lost on our Scottish colleagues. Since the fee must show an average of 1s. 6d., I should have thought that the ingredient cost was all that concerned the parties to the contract. I really must study the differential calculus.

**Food Supplies**

Following my paragraph last week on the subject of phytopharmacy and its importance as an aid to maximum food production, I was interested in the review of Sir John Russell's book on "World Population and World Food Supplies" (p. 212). The need for increasing the yield of wheat per acre is urgent. It is not a new problem, and many schemes have been put forward over the years with the same objective. As long ago as 1660, Digby reported that there was "in the possession of the Fathers of the Christian doctrine at Paris, a plant of barley which consisted of 249 stalks springing from one root of grain, and in which they counted 18,000 grains." Later Mr. C. Miller, of Cambridge, described the sowing of wheat in June, dividing a single plant in August into eighteen plants, and placing them separately in the ground. Further division provided sixty-seven plants to stand the winter, and still further division and planting in April resulted in 500 plants, each more vigorous and of greater yield than those grown by ordinary sowing. In 1788, Tull suggested sowing in straight furrows 50 in. apart, so that the land could be horse-hoed at various periods, the object being to bring fresh soil into contact with the fibrous roots. Brooke said that, with moderate cultivation, one acre should yield three quarters of wheat, but, as stated in your review, a vast difference exists between average and potential yields.

**Westmacott's**

It is not often that a pharmacy becomes so much of a household word as to appear in fiction, yet that was the enviable reputation enjoyed by Westmacott's of Manchester. It is always regrettable to witness the disappearance of a firm with such a long history and tradition, and it is to be hoped that the range of prescription books dating back to 1863 will be kept complete. Historically, those books are most valuable, and their continued existence could be guaranteed by their being gifted to the Society, or, alternatively, to the pharmacy department of Manchester University. Their present owners may have other plans, but, if not, I offer these suggestions to ensure the future safety of the volumes.

# COST OF THE HEALTH SERVICE

## Commons debate on supplementary estimates

MISS P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) moved in the House of Commons on February 16 the approval of a Supplementary Estimate for 1954-55 of £4,848,000 for the National Health Service. She said that the Estimate provided for an additional £2,133,000 for the pharmaceutical service. That was mainly due to the increased average cost of prescriptions, the increased number of prescriptions dispensed and the wider use of newer and more expensive drugs and preparations. It was offset by a saving due to the overtaking of pricing arrears. She paid tribute to the staffs of the pricing bureaux for having completed that task earlier in the past year than had been estimated. When the original estimates were framed, the average cost per prescription was falling. It was assumed that that trend would continue and would result in an average cost of 3s. 11½d., whereas the average cost for 1953-54 had worked out at 4s. 1d. The average cost for 1954-55 was expected now to be 4s. 2½d. In the main the increase had been caused by a wider use of the newer and, in many cases, much more expensive drugs and preparations. The increase in the number of prescriptions was now expected to be about 4,500,000 more than was anticipated originally. To keep the cost of drugs within reasonable limits, doctors were continuously being kept cost-conscious in several ways. She believed that the discussions between the department and manufacturers on price investigations had the support of the whole house. At the same time the Government was not unmindful of the valuable research done by many of the larger firms. The combined effect of all those measures had been to keep the average cost of a prescription reasonably stable over the past three years.

MR. H. A. MARQUAND said that the fall in the value of money had effected an increase in the cost of drugs and other services, and had lowered the value of the shilling or other charges that people had to pay for their prescriptions. Mr. Marquand asked how far medicine of doubtful value was still being prescribed. How far was there a tendency to prescribe excessive quantities or how far were prices still too high?

### Expensive Antibiotics

MR. IAIN MACLEOD (Minister of Health) said that since the estimates had been prepared it had been decided to make two most expensive drugs, aureomycin and Terramycin, freely prescribable.

MR. MARQUAND: Often some of the more expensive drugs are much better value for money. Perhaps the Minister could bring the story of his attack upon the prices of certain proprietary articles up-to-date, and give an assurance that no part of the increase is due to unnecessary or excessive charges for proprietary drugs.

Much of the making up of medi-

cines prescribed by hospitals is done by outside pharmacists. Would it not be a great economy, since the cost of outside prescribing is evidently rising, to increase hospital pharmaceutical staffs in order to take pharmacists back from the trade outside and build up, on the modern lines recommended in the Linstead report, a good hospital pharmaceutical service which would be an example to the whole pharmaceutical profession. It seems that salary adjustment alone would do that. Would it not be a real economy to get more full-time pharmacists in the hospital service and let them spend their time on pharmacy, instead of their being outside spending part of their time on pharmacy and the rest as shop assistants.

### Few Prices Excessive

SIR HUGH LINSTEAD said that he joined with the Parliamentary Secretary in congratulating those responsible for having overtaken arrears in the pricing of prescriptions. Until those arrears were caught up it was not possible for the Ministry to keep a check on over-prescribing by doctors. It was to be hoped that the public would be slowly educated away from the magic that was attached to the bottle of medicine. Relatively few of the prices charged by manufacturers had been found to be excessive. It was significant that the Monopolies Commission had declared itself completely satisfied that the manufacturers of insulin had steadily brought down the price of that vital drug. The fact that the percentage of prescriptions for proprietary drugs was steadily increasing meant simply the advent of newer and better drugs. In France, the United States and Italy the percentage of proprietary medicine was enormously higher so that there was no cause to complain that the manufacturers were exploiting the situation in Britain. The new drugs were also facilitating the speed of cures. The investigation team that had been set up jointly by the Ministry of Health and manufacturers was discovering that there was much to be said on the manufacturers' side as well as on the financial side. He hoped that those investigations would result in an outcome fair to the manufacturers as well as to the Ministry.

MR. ELLIS SMITH said that he had heard allegations that foreign firms with subsidiaries in Britain were charging too much for their products being sold in Britain.

SIR HUGH LINSTEAD said that he thought that such a generalisation was dangerous. The exports of British manufacturers were substantial. Their quality was accepted in foreign countries and it would be unwise to pare down the profits from the home market so that the effect was not merely to damage the pharmaceutical industry but to cut down the research work of those manufacturing firms.

MR. MARQUAND: Does that mean that proprietaries are exported at a

lower price for foreign markets?

SIR HUGH LINSTEAD: No, but in this field probably more than in any other, quality and being in the forefront with research are the things that matter. The dispensing of medicines for out-patients outside hospitals was not encouraged in the report of the working party of which he was chairman [The Linstead report] in order to effect economies. He believed that it was the duty of the hospital to diagnose, to prescribe and then return the patient to his general practitioner with advice which the practitioner would apply in the treatment of the patient. He was sure that there were substantial economies still to be secured in the pharmaceutical costs in the hospitals. If the chief pharmacist in each hospital was a person of substantial scientific knowledge, who was respected and whose advice was listened to by the consultant and by the hospital medical staff, the hospital pharmaceutical service could be given a career value. A large number of well-paid appointments was not needed, but at least in the big teaching hospitals a couple of dozen first-class appointments which would encourage the intelligent graduate to stay in hospital pharmacy and not go into manufacturing or industrial pharmacy. Those men in key positions could influence the teaching of sane prescribing to young medical students, and they could remind consultants of better and more economical ways of treating their patients.

### Drug Trials on Children

MAJOR LEGGE-BOURKE said that it was utterly outrageous that medical experiments should be carried on, however safe they were known to be, without the parents of the children concerned being consulted.

MR. STEPHEN SWINGLER said that medical scientists and doctors should be extremely careful not to use their privileged position to treat human beings merely as laboratory specimens.

A doctor should explain to a patient that experimental treatment was necessary, the nature of the experiment, the risks involved, the benefits that might be obtained or the injury that might result, so that the patient might understand as much as possible so as to give or withhold consent. He had recently drawn the Minister's attention to an experiment of administering penicillin to new-born babies, for the purely scientific purpose of observing their reaction to penicillin and to establish the properties of that preparation. It was clear in that case that the penicillin was not required by the babies, and there was no question of any beneficial effect. It was also established by the Minister on inquiry that the parents' consent was not sought; but even if consent had been given the experiment appeared to be ethically dubious, and he wondered how far the consent of a parent to permit experiments on children should be taken. The Minister said that judgment in such a case should be left to the clinician in charge, but it

seemed that some clinicians allowed their enthusiasm for science to override all moral considerations. He urged the Minister to consult his advisers, the British Medical Association, and the Medical Research Council to see whether some directive or code could be sent to hospitals, to prevent and prohibit experiments, especially on children, that were purely for scientific purposes.

MAJOR W. J. ANSTRUTHER-GRAY said that it was intolerable that children should be used for any experiment, however innocuous, with new drugs, which were bound to have a slight element of danger, without even asking the parents' consent.

MR. IAIN MACLEOD said that it was admitted that, in the instance quoted, the consent of the parents should have been asked for. The people responsible, who were people of the greatest authority and competence, regretted very much, as he did, that that was not done. He did not agree that it would be wrong or unethical for any clinical investigation to be carried out which would not immediately benefit the person on whom it would be carried out. The answer to Mr. Swingler, when he asked who benefited from this, was that all the babies yet unborn might benefit from this continual thrusting forward to new frontiers. It was not the Minister's duty to lay down what ethical and medical principles should govern the conduct of professional men in their work in the hospitals.

MR. A. BLENKINSOP said that he was not satisfied that enough had been done on the question of non-proprietary drugs. He was disturbed that the increase over the year 1954 in the value of pharmaceutical exports was very modest, while the increase of imports of pharmaceutical products was considerable. He also asked whether there had been any further developments in the discussions with the pharmacists on the question of their remuneration.

#### Co-operation from Industry

MR. IAIN MACLEOD said that there had been a general downward tendency in the price of proprietaries. He had no reason to suppose that the investigations that had been carried out were the only, if, indeed, they were even the main reason for the reductions. After he had started his investigation he was asked by the Association of British Pharmaceutical Industry to alter the basis of the investigation to make it fairer and more realistic. He had agreed to do so, and that in part accounted for some of the delay. There were preparations that were not worthy of being sold under the National Health Service, but it must be remembered that the industry had made a wonderful advance in recent years. He was grateful for the co-operation that he had had from the industry. He was interested in the quality of hospital pharmacists. Perhaps the best thing was to see how the Linstead report was received in the country and, for a short time, to let opinion crystallise around it after it had been published. Many drugs had to be imported because they were not made in Britain, but many important firms were begin-

ning to contribute to their manufacture.

#### Scottish Supplementary Estimate

COMMANDER T. D. GALBRAITH (Joint Under-Secretary of State for Scotland) moved the approval of a supplementary estimate for 1954-55 of £1,233,000 for the National Health Service, Scotland. He said that the estimate provided for an additional £250,000 for the pharmaceutical service. The increase in the average cost of prescriptions represented an increased proportion of proprietaries and other expensive drugs rather than an increase in the prices of individual drugs. The increased number of prescriptions reflected a rather high level of sickness at the beginning of 1954 and also the recent influenza epidemic.

MR. H. MCNEIL referring to a statement by the Minister of Health said he was not sure that the amounts of the two new drugs aureomycin and Terramycin would account for 9 per cent. of value in three years. There must be another large factor. He feared that there would be a supplementary estimate for the pharmaceutical service almost annually unless there was a concerted effort to try to persuade people that their health did not lie in those almost endless prescriptions, some of which were not worthy of the service. If the hospital pharmacy service had been developed with vigour there would not have been an estimate of the present size for the pharmaceutical service. Sir Hugh Linstead had been a little cool in saying that he was in favour of the hospital service, but

was not sure that a man should be kept at a hospital instead of being sent out to general practice. More and more pharmacists should be provided with whole time employment which a hospital offered, rather than continuing to be employed in a shop where much of their time was misspent. The big drug stores did not have qualified men selling scented soap, that only happened in the little shops, and it was there that there was an extravagant misuse of the qualified pharmacist, and the health of the country could not afford that.

MR. A. C. MANUEL said that a hospital employing its own pharmacists could effect much saving. In the old days, purchases were made from local chemists; that was extravagant. The local chemists might have their uses, but they lay elsewhere in the service.

MR. E. G. WILLIS supported the extension of the pharmaceutical services in the hospitals and along the lines of the Sighthill Health Centre in Edinburgh. He understood that the work done in the dispensary of that centre was increasing enormously.

MR. W. ROSS asked whether doctors' prescribing was being investigated with sufficient vigilance. If that was happening the estimates should have been very much better.

COMMANDER GALBRAITH said that while the estimated cost of the pharmaceutical service had risen, the latest figures of costs were encouraging. They suggested that the information about drugs costs which was now supplied to each doctor three times a year had helped in economy.

## DRUG PRICES NOT EXCESSIVE

#### Treasury concurs in Departments' view

IN a Treasury minute in a special report from the Committee of Public Accounts, published on February 21, it is stated that the Government Departments concerned think that the general level of profits earned on standard drugs and preparations does not suggest that the level of prices in that field is excessive or that intervention by the Departments is called for. The Lords of the Treasury concur in that. The minute points out that the cost investigation into standard drugs and preparations has been completed and that it entailed investigating the margin of profit, turnover and capital employed of a sample of nineteen companies with an annual turnover of about £24 millions. The accounts for three successive financial years were examined. The results showed that the average annual percentage of profit to capital employed was 13·6. Bearing in mind the substantial volume of business unrelated to the Health Service included in the turnover of the firms the conclusion on prices, stated above, was reached. The Health Departments had every intention of pressing on with their investigations and discussions as quickly as was practicable but the problem of deciding fair prices was complex. The investigations covered the general level of profit earned in the manufacture and distribution of unbranded standard drugs and preparations; the cost of

manufacture of selected basic drugs and the prices of selected proprietary preparations.

On the subject of the remuneration of Scottish chemists the report amplifies the reply given in Parliament recently on whether the Scottish Drug Tariff was in accordance with the award of the arbitration tribunal of June 1951 (see *C. & D.*, February 5, p. 136). It states that the Department expects that it will shortly be able to assess the propriety of the present remuneration of Scottish chemists, in which the effect of the special Tariff methods is a relatively minor factor. Any comparison between the Scottish and English Tariffs must note all the points of difference between them which may reflect differences in prescribing and dispensing practice as well as in cost. The objective will be to arrive at a fair overall remuneration in relation to service necessarily performed.

The report is published by H.M. Stationery Office, price ninepence.

## N.H.S. STATISTICS

IN ENGLAND during November 1954, 18,351,418 prescriptions (10,497,984 forms) were dispensed at a total cost for ingredients, fees and containers of £3,905,222. The average total cost per prescription was 51·07d. and the average dispensing fee 12·41d.

## IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

MR. PETER THORNEYCROFT (President of the Board of Trade) told COMMANDER J. F. W. MAITLAND, in a written answer on February 15, that the main factor in improving Anglo-Brazilian trade was Brazil's ability to sell her goods in Britain. The Government had taken all necessary steps to free Brazilian exports to Britain from import restrictions.

### Fertilisers and Weed-killers

MR. HEATHCOAT AMORY (Minister of Agriculture) told MR. R. F. CROUCH on February 10 that there had been a record consumption of both nitrogenous and phosphatic fertilisers in 1954. He was advised that the advantages of using selective weed-killers on grassland had not yet been sufficiently established to warrant their being recommended to farmers. Further experiments were under way.

### Air Pollution

MR. J. R. BEVINS (Parliamentary Secretary, Ministry of Works) told MR. A. EVANS, in a written answer on February 15, that since the summer of 1954 the Fuel Research Station had been measuring the concentration of carbon monoxide at a number of sites in London. Methods of detecting other pollutants in the air from exhaust fumes were also being investigated. The Medical Research Council was working on new methods of determining gases present in the atmosphere and in the blood. It was hoped soon to do blood estimates on men who were exposed to vehicle exhaust fumes for long periods.

### Linstead Report

MR. IAIN MACLEOD (Minister of Health) told MR. K. ROBINSON, in a written answer on February 16, that the Linstead report on hospital pharmaceutical services would be published on March 3. It had been necessary to obtain agreement on the way in which certain dissenting views which had been expressed in the Standing Pharmaceutical Advisory Committee should be presented with the report.

### Cadmium Poisoning

MR. H. A. WATKINS (Parliamentary Secretary, Ministry of Labour and National Service) told MR. H. WILSON on February 17 that the report of the Medical Research Council on cadmium poisoning was being studied by the chief inspector of factories. At the factories concerned, measures which included improvement to exhaust ventilation and closer medical supervision had already been taken. Only fourteen cases of cadmium poisoning had been reported in the years 1938-54, and all workers so reported recovered.

### Diacetylmorphine

MAJOR GWILYM LLOYD-GEORGE (Home Secretary) told SIR HUGH LINSTEAD, in a written answer on February 18, that the Government had decided to give effect to the resolution adopted by the Economic and Social Council of the United Nations at its eighteenth

session urging all governments to prohibit the manufacture, import and export of diacetylmorphine except for such small amounts as might be necessary for scientific purposes. Accordingly the current licences for the general manufacture of diacetylmorphine under the Dangerous Drugs Act, 1951, which expire on December 31, 1955, would not be renewed. After that date licences would only be granted for the manufacture of such small quantities as might be required for purely scientific purposes and for the production of nalorphine, for the manufacture of which diacetylmorphine was required as an intermediate stage. Although the resolution made no reference to nalorphine the discussions which led up to it recognised that an exception for the manufacture of that drug would be required. He proposed to authorise no further exports of the drug save where the export was requested by a government for one of those two purposes. The import of diacetylmorphine would not be permitted.

### Ownership of I.G. Farben

MR. R. H. TURTON (Foreign Under-Secretary) told MR. ELWYN JONES, in a written answer on February 16, that the Allied High Commission Law No. 84 was designed only to secure the completion of the allied deconcentration programme for I.G. Farben through German agencies and German law, and did not contain provisions

imposing on the Federal German Republic an obligation to maintain the pattern of ownership established by that programme.

### Lead Poisoning

MISS P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) told DR. B. STROSS, in a written answer on February 21, that cases of lead poisoning were not notifiable. There were eleven deaths among children ascribed to lead in the five years ended September 1954.

### Medical Manpower Committee

MR. IAIN MACLEOD (Minister of Health) told MR. J. K. VAUGHAN MORGAN, in a written answer on February 21, that the Secretary of State for Scotland and he were setting up a Committee with the following terms of reference: To estimate on a long-term basis the number of medical practitioners likely to be engaged in all branches of the profession in the future, and the consequential intake of medical students required.

### Drug Imports

MR. PETER THORNEYCROFT (President of the Board of Trade) told MR. A. BLENKINSOP on February 22 that nearly 60 per cent. of the increase in imports of medicinal and pharmaceutical products during 1954 compared with 1953 was due to imports from the United States. He imagined that the imports had increased because some of the new drugs had been developed and produced in the U.S. and he thought that it was right that the people of Britain should have access to them.

## COMPANY NEWS

*Previous year's figures in parentheses*

**CYANAMID PRODUCTS, LTD.**—General Sir Kenneth N. Crawford, K.C.B., M.C., has been appointed to the board of the company, of which Lederle Laboratories is a division.

**ESCHMANN BROS. & WALSH, LTD.**—Mr. Arthur Butler has retired, having completed sixty-one years in the company, the past forty-one as managing director.

**PETROCHEMICALS, LTD.**, have acquired the whole of the share capital of Oxirane, Ltd. Dr. F. H. Kroch and Mr. F. A. Russell have resigned from the board. Messrs. G. H. Owtram and E. J. Barnsley remain as directors.

**MONSANTO CHEMICALS, LTD.**—A second interim dividend on the company's ordinary stock of 15 5/6 per cent. (13½ per cent.), less income tax is declared. No further distribution will be recommended in respect of 1954. Subject to completion of audit, net sales for 1954 were £12,634,616 (£10,852,854); consolidated trading profit, £2,940,407 (£2,354,084); net profit after taxation, £880,739 (£750,059). Proportion attributable to the Monsanto group, £845,984 (£715,724).

### New Companies

P.C. = Private Company; R.O. = Registered Office.

**STEWART DUNN & SON, LTD. (P.C.)**—Capital £4,000. To acquire the business of Stewart Dunn & Son at 100 High Street, Deal, Kent. Directors:

**COLEMAN CHEMISTS (LIVERPOOL), LTD. (P.C.)**—Capital £5,000. To carry on the business of chemists, druggists, opticians, etc. Directors: Bertram Coleman, M.P.S., and Stella R. Coleman. R.O.: 37 Walton Hill Avenue, Liverpool, 14.

**ISHERWOOD (CHEMISTS), LTD. (P.C.)**—Capital £100. To carry on the business of wholesale and retail chemists, etc. Directors: Thomas Isherwood, M.P.S., and Beryl M. Isherwood. R.O.: 105 Sun Lane, Gravesend, Kent.

**REIDS CHEMISTS (LUTON), LTD. (P.C.)**—Capital £10,000. To acquire the business carried on by Thomas Reid, M.P.S., 169 Dunstable Road, Luton. Directors: Walter White, M.P.S., Joyce M. White and Victor C. Hall.

## LEGAL REPORTS

### Shopbreaking

AT Alfreton, Derby, magistrates' Court, on January 19, Ronald Keenon, Sheffield, was committed for trial at Derbyshire quarter sessions on a charge of breaking and entering the pharmacy of Raymond Craven, 85 High Street, Claycross, Derbys, and stealing £10.

### Sale at Market Stall

AT Petersfield, Hants, recently, David Dobreen, street trader, Leeds, was fined £5 for selling, contrary to the Pharmacy Acts, an ointment, the Pride of Yorkshire (claimed to be made of hedgehog fat). Dobreen had a stall in Petersfield market place and was verbally recommending the ointment for various foot ailments.

### Damage to Pharmacy

AT Leicester city court, recently, John Stewart, no fixed address, was fined £1 or thirteen days' imprisonment on a charge of breaking the glass in the window of a Leicester branch of Boots, Ltd., and causing damage to the value of £5. Stewart was stated to have had thirteen previous convictions, including three for similar offences.

### Chemist's Customer Fined

AT Lambeth, London, court, recently, William Jeffries, Southwell Court, Rosendale Road, Herne Hill, was fined £1, with £2 2s. costs, for assaulting Mr. Collins Nice, M.P.S., Thurlstone Road, Norwood. It was stated that Jeffries struck Nice on the chest, the police had to be called in, and the shop closed twenty-five minutes late.

### Under Influence of Drug

AT Edinburgh sheriff court, recently, Michael O'Brien, a commercial traveller, was fined £50 and banned from driving for three years on being convicted of driving under the influence of drink and other charges. O'Brien admitted the charges, but said that he had first taken amphetamine tablets and was under the influence of the drug.

### Unauthorised Sale

AT Marylebone, London, magistrates' court, on February 8, Zygmunt (Continental Drug Stores), Ltd., 96 Baker Street, London, W.1, were fined 20s., with £1 1s. costs, for selling by retail on November 17, 1954, codeine (in Veganin tablets) when not authorised sellers of poisons. A second summons for selling the preparation in a container not labelled in the prescribed manner, and with the name of the seller of the poison and the address of the premises, was not separately dealt with.

### Stole Phenobarbitone

AT a special court at Solihull on February 15, Norma Parkins, said to be living at 177 Streetsbrook Road, Shirley, was charged with stealing a bottle containing thirty-six phenobarbitone tablets from Solihull Hospital. She had been employed at the hospital. The duty sister at the hospital had placed a bottle of the tablets in a cupboard in

her office. Parkins made a statement in which she said she went into the sister's office, saw the cupboard open and the tablets inside. "There was no one in the office at the time so I took them. I took them so that I could put an end to my life." Parkins was put on probation for twelve months.

### Trade Mark Action

IN the High Court, London, recently, a motion by Chappie, Ltd., makers of Kit-E-Kat cat food, to stop Warrington Canners, Ltd., from infringing their trade mark by marketing Pretty Kitty cat food, was not made the subject of an order. For the plaintiffs it was pointed out that a customer who asked for "Pretty Kitty cat food" would be using the very words which belonged to the makers of Kit-E-Kat. The judge said that there could be no visual confusion between the labels, and in giving oral orders he thought people were likely to ask for "Pretty Kitty" without the added burden of "cat food." No serious damage, he thought, would arise by the use of the name "Pretty Kitty" before the trial of the action between the parties.

### Receiving Charges Dismissed

SUNGLASSES imported from Italy by the Whitecross Optical Co., 55 Whitecross Street, London, E.C.2, were produced at Thames magistrates' court, on February 14, when a chemist and a traveller were acquitted on a charge of receiving part of a consignment of sunglasses found to have been pilfered when it arrived at the company's premises. The chemist, Charles Marcus, M.P.S., 1 Margery Terrace, Forest Gate, pleaded not guilty to receiving one carton containing twelve pairs sunglasses worth £5 7s., and the traveller, Leon Jack Cantor, St. Paul's Avenue, Cricklewood, pleaded not guilty to receiving eleven cartons containing 126 pairs sunglasses value £55 17s. 6d. The manager of the Whitecross Optical Co. said that, when seven large cases containing cartons of sunglasses were delivered to the firm's premises on January 25, two of them had "obviously been well pilfered." He sent them back to the hauliers' depot and they were redelivered, still with shortages. One case had twelve cartons and a single pair of glasses missing. Nineteen pairs were missing from cartons in another case. The retail price of a carton of twelve pairs of glasses was £5 7s. The price at which his firm sold to wholesalers was £2 13s. 6d. The prosecution said that what Marcus and Cantor told the police was more or less the same. Marcus admitted buying a carton containing a dozen pairs of glasses from a man he knew as a job buyer. He paid £1 for them. Some time later Cantor came to Marcus' shop and it was arranged that the "job buyer" would leave some more glasses at Marcus' shop for Cantor. Cantor left with Marcus the money to pay for them and collected them on January 31—only six days after they had been collected by the haulier from Blackfriars goods depot. Both Marcus and Cantor were described as men of good

character. Dismissing the case the magistrate warned both men: "Remember to be more careful in future."

### Vitamin Claims for a Food

AT Swindon, on February 15, H. J. Heinz, Ltd., food manufacturers, were fined a total of £30, with £10 10s. costs, after pleading guilty to being a party to the publication of an advertisement for Heinz strained beef and liver soup, which claimed that iron was present in the food without specifying the minimum quantity of iron contained in each ounce; of claiming that the food contained vitamins but not specifying the minimum quantity of certain substances in each ounce; and being a party to the publication of an advertisement calculated to mislead as to the nutritional value of the product. The chief inspector of weights and measures, Wiltshire County Council, said the claim that the food contained vitamins and iron was misleading and not justified when only one or two teaspoonsfuls were normally served each day. Vitamins and iron were present but the amount contained in one or two teaspoonsfuls was but a fraction of a baby's daily requirements. Liver was given prominence in a list of the food's contents but its weight was less than the weight of any of the other ingredients. A public analyst said the food contained only 3 or 4 per cent. liver. A food should not be claimed to contain vitamins or iron unless the amount normally consumed in one day contained at least one-sixth of the daily requirements. Questioned on behalf of the company, he agreed that the advertisement did not recommend any quantities of the food, but the label recommended starting a baby with one teaspoonful, increasing the amount. The company's counsel emphasised that a baby-feeding booklet, supplied by the company, pointed out the value of babies' having cod-liver oil and orange juice. It was never intended that mothers should believe that the food was sufficient without anything else. If a baby was fed a quarter-can of the food per day, it would, with the exception of vitamin C, be receiving one-sixth of the vitamins needed to justify a general claim. "I understand that babies have a half-can one day and the remainder the next." A table of nutritional requirements published by the Minister of Food set out a lower standard than that quoted by the prosecution (from a report by the British Medical Association committee on nutrition). The manager of the company's scientific research department said it was not the company's policy to claim its food contained vitamins and minerals. The advertisement had been prepared by the firm's advertising agents, and he had altered the wording "liver is rich in the iron and vitamins that baby needs" to "liver contains the iron and vitamins that baby needs" before sanctioning the advertisement. The company did not consider itself a manufacturer of proprietary foods.

Fining the company on the first two summonses and dismissing the third, the chairman said there was no personal liability on the directors.

## BUSINESS CHANGES

MR. ROBERT DOHERTY, L.P.S.I., has taken over Mr. E. T. O'Dea's Pharmacy, 33 Davis Street, Limerick, Eire.

MISS M. TIERNEY, L.P.S.I., recently opened a pharmacy at Ballinleer Road, Dundrum, co. Dublin, Eire.

STEELE'S ADVERTISING SERVICE, LTD., are removing to 34 Brook Street, London, W.1 (telephone: Hyde Park 1221), on February 28.

THE Foreign Labour Division of the Ministry of Labour and National Service is moving to Ebury Bridge House, Ebury Bridge Road, London, S.W.1, on February 28.

G. B. EQUIPMENTS, LTD., 37 Mortimer Street, London, W.1, have appointed Mr. A. E. Green assistant sales manager of their photographic and optical division from March 1.

SPOTTISWOODE, DIXON & HUNTING, LTD., are removing to 34 Brook Street, London, W.1 (telephone: Hyde Park 1221), on February 28. On that date also the title of the company is being changed to Spottiswoode Advertising, Ltd. There are no changes in the constitution of the company resulting from these alterations and contracts or arrangements are unaffected.

### Appointments

MONSANTO CHEMICALS, LTD., have appointed Dr. H. R. Newman (medical officer at the Newport factory), the company's principal medical officer.

WILLIAM FREEMAN & CO., LTD., Peel Street, Barnsley, have appointed Mr. G. Newton, 17 Bernard Gardens, London, S.W.19, their representative in Oxfordshire, Buckinghamshire, Berkshire, Hampshire, Middlesex and part of the counties of Wiltshire and Dorset.

### PERSONALITIES

MR. E. J. BOWERMAN, M.P.S., Torquay, has been elected a Fellow of the Institute of British Surgical Technicians.

MR. PATRICK T. CROWLEY, M.P.S.I., Ballyfermot, Dublin, has been appointed a Peace Commissioner by the Minister of Justice.

MR. JOHN B. BROADBENT, M.P.S., Hanley, Staffs, who recently celebrated his ninetieth birthday, retired two years ago after being in business as a chemist and druggist in Hanley for sixty-nine years. Prior to that he served his apprenticeship in the same shop. He is a former president of the Huddersfield Chemists' Association and was an instructor in pharmacy at the Huddersfield Technical College for many years. His birthday cake was decorated with a chocolate model of his shop.

GENERAL SIR KENNETH N. CRAWFORD, K.C.B., M.C., who has been elected to the board of directors of Cyanamid Products, Ltd. (see p. 224) is a Royal Engineers officer, who served in the 1914-18 and 1939-45 wars and

held a variety of engineer and staff appointments during his army service. He was director of chemical warfare, 1940-41, and director of air (land/air warfare) 1942-45, in which capacity he organised the British airborne forces. After the 1939-45 war he commanded the British troops in Greece for a year and was then appointed deputy chief of the Imperial General Staff at the War Office, where he served as a member of the Army Council, 1947-49. From October 1949 until his retirement from the army in October 1953, he was controller of munitions at the Ministry of Supply and chairman of the royal ordnance factories board of management.

### MARRIAGE

BREE—CAMPION.—At St. Mary's Cathedral, Kilkenny, recently, Michael Bree, M.P.S.I., Abbyleix, to Sheila Campion, Ballagh Erril, Leix, Eire.

### DEATHS

CLARKE.—In hospital on February 8, Mr. Ion Alexander Clarke, L.P.S.I., M.P.S.N.I., 60 Portstewart Road, Coleraine, co. Londonderry, Northern Ireland. Mr. Clarke qualified in Dublin in 1913 and was registered in Northern Ireland in 1926. He carried on business for many years at 32 Main Street, Portrush, co. Antrim.

DANIEL.—In hospital on February 13, Mr. Arthur William Daniel, M.P.S., Lake House Road, Wanstead, Essex, aged seventy-six. Mr. Daniel was president of the British Chess Problem Society, 1945-47, and president of the Essex County Chess Association. He was in business at Collier Row, Romford, Essex. He was a gifted amateur artist and was interested in photography, music and golf. He was a member of Hainault Forest and Wanstead golf clubs and maintained a single figure handicap for twenty years. He is survived by his widow.

ELLIS.—On January 27, Mr. Willie Ellis, M.P.S., 113 Dawes Road, Fulham, London, S.W.6. Mr. Ellis qualified in 1911.

HOLDING.—In May, 1954, Mr. John Thomas Holding, M.P.S., 54 Ashley Road, Altrincham, Ches. Mr. Holding qualified in 1898.

JOHNSON.—On February 17, Mr. Martin Whitehead Johnson, M.P.S., 64A Thoroughfare, Woodbridge, Suffolk, aged seventy-one. Mr. Johnson is survived by his widow and a daughter.

MACFARQUHAR.—Recently, Mr. William George MacFarquhar, M.P.S., 27 Fingall Road, Dingwall, Ross-shire, aged sixty-five. He was in business at 65 High Street, Dingwall. He was apprenticed to Messrs. Dewar & Hay, Dingwall. After qualifying, he served with Davidson & Kay, Ltd., Aberdeen, before going into business on his own account at Kemnay, Aberdeenshire. In 1940 he returned to Dingwall.

MARTIN.—At Roebuck House, Chesterton, Cambridge, on February 15, Sir Charles James Martin, C.M.G., F.R.S., aged eighty-nine. Sir Charles

was director of the Lister Institute of Preventive Medicine, 1903-30.

MINER.—On January 31, Mr. William Harold Miner, M.P.S., 8 Sunnybank, Bebington, Wirral, Ches, aged seventy-seven. Mr. Miner qualified in 1899.

PAGET.—On January 24, Mr. Ivor Charles Paget, M.P.S., c/o The Pharmacy, High Street, Odham, Hants, aged forty-eight. Mr. Paget qualified in 1937.

ROWE.—On January 28, Mr. George Arthur Stanley Rowe, M.P.S., 35 High Street, Narberth, Pembrokeshire. Mr. Rowe qualified in 1902. He was a native of Narberth, serving his apprenticeship there with the late Mr. B. Havard. Returning to the town from London after qualifying, he took over Mr. Havard's business, where he carried on until within a week of his death.

SWINN.—On February 1, Mr. Robert Fred Swinn, M.P.S., 9 Macauley Road, Whalley Range, Manchester, 16, aged seventy-six.

WORTON.—At 63 St. Peter's Avenue, Caversham, Reading, Berks, on February 20, Mr. Percy Lyndon Worton, M.P.S., aged sixty-nine. He opened a business in Bridge Street, Caversham, in 1912 and although in failing health, took an active interest in it up to the time of his death. He is survived by his widow.

*Mr. H. Williams* writes: In the death of Mr. Worton I, as secretary of various pharmaceutical organisations, have lost an excellent friend. Because of his complaint he rarely attended meetings, but he was unfailing in his interest, advice or criticism in pharmaceutical affairs. He always acknowledged receipt of even a circular letter and was a generous financial supporter of the Reading Branch's activities. He was one of the old school of hard-working pharmacists, and by his diligence had built up a very successful business. Although he had lived in Reading for so long he was at heart a "Northerner." I will sadly miss P.L.W.

### WILLS

DR. M. R. BRADY, 150 Harley Street, London (a founder and late bacteriological and medical director, Antigen Laboratories, Ltd., London), left £9,524.

MR. L. J. DA FORNO, M.P.S., 21 Southcroft Road, Wallasey, Ches, left £1,933 (£737 net).

MR. H. KNIGHT, M.P.S., Tranquil, Tamworth Road, Keresley, Coventry, Warwickshire, left £19,644 (£19,408 net).

MR. J. D. MARIES, M.P.S., 15 North Street, Portslade, Sussex, left £465 (£322 net).

MR. W. McFARLAND, M.P.S.I., Ballybofey, co. Donegal, left £3,611.

MR. C. B. MITCHELL, M.P.S., 726 King Lane, Alwoodley, Leeds, left £10,413 (£9,866 net).

MR. F. MORT, M.P.S., 108 Parkville Road, Withington, Manchester, left £9,949 (£9,858 net).

MR. A. NATHAN, 47 Knightsbridge Court, Sloane Street, London, S.W.1 (founder and former chairman of Glaxo Laboratories, Ltd.), left £106,388 (£104,620 net).

MR. A. NIXON, 5 Meadow Gate, N.W.11 (chairman and managing director, Solport Bros., Ltd.), left £36,334 (£33,928 net).

MR. J. L. W. ROBERTS, M.P.S., 7 Waterloo Road, Falmouth, Cornwall, left £1,402 (£1,352 net).

## NEW PRODUCTS AND PACKS

**Infant's Bath.** — E. K. Cole, Ltd., Southend-on-Sea, invite trade inquiries about their lightweight, virtually unbreakable, soft-surfaced Plastabath infant's bath, available with or without stand.

**"Invisible Hair Net."** — Lacquer Sheen hair spray ("comb the hair... spray it... forget it") is now issued in a pink-and-white striped press-button aerosol container or plastic squeeze bottle. The makers are Steiner Products, Ltd., 66 Grosvenor Street, London, W.1.

**Lanolin-based Body Lotion.** — Westbrook Lanolin Co., Ltd., recently introduced a new product, Skin Sheen body lotion for use mainly after a bath. Skin Sheen lotion has a base of specially prepared superfine lanolin, and is presented in a polythene container with grey cap and gold silk-screen lettering.

**"Headstrong" Perfume.** — Burleon, Ltd., 21 South Molton Street, London, W.1, have introduced a new member



of their series of cosmetics and toilet preparations. Tētu ("headstrong") is a quality perfume that incorporates a base imported direct from France. It will be available to the public in April and is being marketed initially in two sizes: a square ½-oz. bottle "in the classic style," packed in an attractive silk-lined box and suitably padded to hold the stopper firmly in place when travelling; and a trial-size "thimble" bottle.

**Neutral Toilet Soap.** — Acting on a finding by the Pasteur Institute in Paris that proteins containing cystine in their molecule get the power of absorbing oxygen from the air when placed in a medium having a pH equal to or above 9.5 (a reaction that proceeds even after the alkalinity of the medium has been removed), M. & R. Norton, Ltd., 9 Park Hill, London, S.W.4, are marketing in Neutrogena soap a product of pH 7.5 and claimed to neutralise both acid and basic media. That property they describe as "hitherto unknown in soap." Neutrogena soap is manufactured by Laboratoires Ed. Fromont, Brussels, Belgium.

**Liquid Cleanser and Nourisher.** — Late Night Final is the name of a new cosmetic product being introduced by

Inoxa (England), Ltd., 1 Eden Street, London, N.W.1. The lotion, made to a formula which has taken over two and a half years to perfect, combines the functions of cleansing cream and skin food. It is a thick, creamy lotion directed to be applied as a cleanser, removed, and a further quantity mas-



saged in and left on overnight as a non-greasy nourisher. It is packed in a stream-lined ribbed glass bottle with pearly grey cap and outer carton in "shocking" pink and grey, and is presented in two sizes, 2-oz. and 4-oz.

**Tea Flask with Polythene Pourer.** — Vacco, Ltd., Grosvenor Gardens House, Grosvenor Gardens, London, S.W.1, have produced a much improved version of the Vacco tea flask (see C. & D., May 1, 1954, p. 443).



The non-drip polythene pourer with which it is fitted is an integral part of the flask. It ensures perfect pouring; a watertight seal between bottle and shoulder (there is a vertical interlocking joint between polythene collar and flask shoulder); and a resilient mounting of the bottle (the bottle neck is snugly held on top by the resilient polythene collar, whilst the base is securely gripped by the rubber-lined base seating, giving shock-resisting neck-and-base suspension with a high degree of protection to the bottle). "Wide and forceful" national advertising is being placed. Display material is available.

## PACKAGING NOTES

**Packing "Twin" Ampoules.** — The launching of Parentrovite by Vitamins, Ltd., London, W.6 (see C. & D., December 18, 1954, p. 616) posed a packaging problem that has been ingeniously and attractively solved. The pack had to be designed to carry three pairs of 1-c.c., 2-c.c., or 5-c.c. ampoules—"twin" ampoules being required for each Parentrovite injection. The result



has been efficiently and economically achieved with the pack illustrated, which is made out of a single sheet of carton board, is elaborate enough to present the ampoules securely and in a manner that "explains" their use, yet so inexpensively there is no feeling of waste when it is thrown away after use. The design is being adapted also for the packaging of other injectable preparations in the company's range, the monogrammed left-hand portion in green being constant, and label changes being limited to the right-hand white panel.

**Carton and Case Marker.** — Mark-o-Print, Ltd., Station Path, London, S.W.6, are makers of the Rollmaster device for printing names, addresses, trade marks, code numbers, shipping marks, etc., on cartons or packing cases. The message to be printed is set in Easi-Lock rubber type (or logotypes) on a self-inking cylinder that in use is rolled again the container. The method has obvious advantages over stencils and rubber stamps, and may also be applied on cylindrical drums, sacks and bags. For marking cartons on a conveyor line a mechanical variant, the Auto Rollmaster, has been prepared. It rotates to leave its message on the carton as it passes along the conveyor. A return mechanism ensures correct positioning of the mark on the carton.

## TRADE NOTES

**Now Tax-free.**—A. E. Stannard, Ltd., Fleet, Hants, announce that their product Sweet-breaths is now exempt from purchase tax.

**Discontinued.**—Genatosan, Ltd., Loughborough, Leics, announce that production of Cupragen cream has been discontinued. Warehouse stocks of all sizes are sold out.

**Methoin, B.P.**—Carnegies of Welwyn, Ltd., Welwyn Garden City, Herts, are manufacturing Methoin, B.P., which has just been added to the National Formulary, and would appreciate inquiries.

**Exclusive Agents.**—Beauty Services, Ltd., 1 Robert Street, Hampstead Road, London, N.W.1, have been appointed exclusive agents for Harriet Hubbard Ayer cosmetics and toilet preparations in Great Britain and Northern Ireland.

**Distribution Change.**—From March 1, Fassett & Johnson, Ltd., are relinquishing distribution rights in Holly-Pax internally worn sanitary protection without applicators, which should thenceforth be ordered through trade wholesalers. The makers, Tampax, Ltd., Belvue Road, Northolt, Greenford, Middlesex, have show material available.

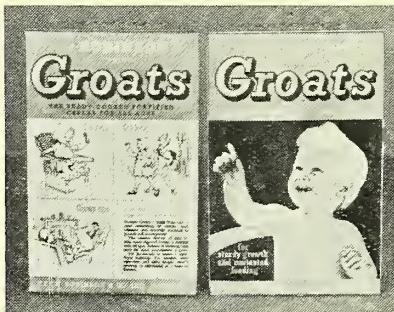
**Tenders Invited.**—The Export Services Branch, Board of Trade, Lacon House, Theobalds Road, London, W.C.1, has issued details of tenders invited by the Union of South Africa for surgical rubber gloves (Ten/12586); by the Belgian Congo for x-ray equipment (Ten/12571); and by the Kingdom of Greece for medical and hospital equipment (Ten/12552).

**Scottish Favourite for England.**—Ferguzade, a beverage containing 26.5 per cent. glucose in Strathmore spring water, with already an established popularity in Scotland and Ireland, is now being made available in England. The manufacturers are Ferguzade, Ltd., Strathmore Springs, Forfar, Scotland, and there are eight wholesale distribution centres (Sangers, Ltd., London, Bristol and Newcastle-on-Tyne; May, Roberts & Co., Ltd., London, Liverpool, and Plymouth; Brooks & Warburton, Ltd., London; the Chemists' Supply Co., Ltd.; Hirst, Brooke Goodalls, Ltd., Leeds; Francis Newbery & Sons, Ltd., Cardiff; Southall Bros. & Barclay, Ltd., Birmingham; and John Thomson, Ltd., Liverpool).

**National Pharmacy Exhibition.**—The National Pharmacy Exhibition is being held at the Victoria Halls, Bloomsbury Square, London, W.C.1, September 19-22. Much of the space has been already taken up. Among the exhibitors are manufacturers of ethical medical products, pharmaceutical houses, publishers of technical books and journals, manufacturers of fine chemicals, and hospital and pharmacy equipment, photographic material and apparatus, chemists' sundries, perfumes and cosmetics. Equipment, apparatus and instruments for hospitals, dispensaries and research laboratories will include machines for filling, capping, sealing, packing, weighing, etc., scientific apparatus,

general equipment, and glassware. Application for space should be made to the organisers, the British and Colonial Druggist, Ltd., 194 Bishops-gate, London, E.C.2.

**Widening the Appeal.**—Having been aware for some time that Robinson's ready cooked groats, like the



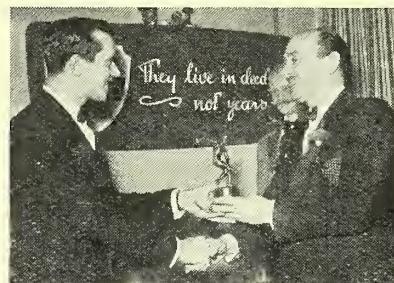
company's "patent" groats, is used not only as an infant food but also as a food for toddlers, as a dish for invalids and as a light supper dish or nightcap for grown-ups, Keen, Robinson & Co., Ltd., Carrow Works, Norwich, have adopted the new pack illustrated, in which, on one face, the picture of a baby has been replaced by three illustrated panels to support the claim that ready-cooked groats is the "cereal for all ages." Its bright red colour provides excellent display, and to show both sides in the same window multiplies the sales appeal.

### Bonus Terms

**FERGUZADE, LTD.**, Strathmore Springs, Forfar, Scotland: Thirteen to the doz. Ferguzade glucose beverage, until March 12.

**WRIGHT, LAYMAN & UMLEY, LTD.**, 42 Southwark Street, London, S.E.1: Twelve for eleven bonus on Wright's domestic and garden anti-pest preparations.

**JAMES COX & CO., DDT WORKS**, South Harrow, Middlesex: Bonus discount of 10 per cent. on orders for three gross DDT flycards or Mothowix.



**SALESMAN OF THE YEAR:** Mr. Donald Wright receives from the managing director of Ortho Pharmaceutical, Ltd., High Wycombe (Mr. Reginald George) at a recent dinner in London, the trophy he was awarded as the company's outstanding salesman of 1954. The caption to the illustration published in the C. & D. January 29, p. 115, should have read: Mr. Sven Holmberg (sales manager, Scandinavian division, Ortho Pharmaceutical, Ltd.), receiving from the managing director (Mr. Reginald George) a plaque with Scandinavian and British flags to commemorate his visit to Britain.

## PHOTOGRAPHIC NOTES

**Dual-purpose Print-trimmer.**—Giving a 7-in. plain or "deckle" cut, one of the print trimmers in the Ideal range distributed by Jonathan Fallowfield, Ltd., 74 Newman Street, London, W.1, is an economical accessory for the photo-finisher.

**Electronic Print Timer.**—Uniform print quality in the work turned out in trade developing and printing dark-rooms is ensured by the use of the Unitel electronic print timer, the distributors of which are Jonathan Fallowfield, Ltd., 74 Newman Street, London, W.1.

**8-mm. Projector.**—Cinex, Ltd., 9 North Audley Street, London, W.1, are the sole U.K. wholesale distributors of the Bolex M8R 8-mm. projector, the "only one that is precision built by watchmaker craftsmen in Switzerland." Trade terms to dealers are described as generous.

**Colour Processing at Home.**—The Pakolor outfit No. 1 distributed by Associated British-Pathe, Ltd., 133 Oxford Street, London, W.1, offers photographers a self-contained box of materials for colour printing and processing. The outfit includes developer (three solutions to be mixed before use); stop-bath stock solution; bleach-fix. It is manufactured by Johnsons of Hendon, Ltd., for Photo Chemical Co., Ltd. The chemicals are obtainable separately.—On March 31 the prices of Pakolor negative film are being reduced.

**Colour Processing Charge.**—Dufay, Ltd., Boreham Wood, Herts, announce that, from April 18, the processing charge to the public for Dufaycolor roll films will be 2s. 6d. per roll. Dealers' discount continues at 33½ per cent. and any dealers in possession of prepaid processing vouchers with a face value of 1s. 9d. will have them honoured at that rate until their stocks are exhausted. All processing work should be sent direct to St. Annes Dufaycolor Processing Station (Preston Photographics, Ltd.), 48 Church Road, St. Annes-on-Sea, and not to Dufay, Ltd.

**Extension to Kodachrome Service.**—Kodak, Ltd., Wealdstone, announce an extension to their Kodachrome service. It now includes colour prints on paper, duplicate transparencies, and black-and-white 35-mm. negatives from transparencies. Thus the single Kodachrome transparency is no longer the sole aim in 35-mm. amateur colour photography. Many photographers will use Kodachrome film to get colour prints, duplicates, and black-and-white enlargements. In the past, black-and-white negative strips supplied have been made from Kodachrome film in strip form by cine printing. That meant giving the same exposure for each frame, and the negatives showed variations comparable with those of the colour transparencies on the strip. Some were not suitable for enlarging. The new service consists of supplying a minimum of ten negatives in strip form from mounted selected transparencies.

# PHARMACIES OF BRITAIN—33



## THE PHARMACY OF J. H. BISHOP, LTD., TUNBRIDGE WELLS

As befits a spa, Tunbridge Wells has several choice "period" pharmacies. The one illustrated is that of J. H. Bishop, Ltd., opposite the Central Station and near the upper end of the High Street. The pharmacy has a late Victorian façade with ornamental iron work, and inside are mahogany fittings. The lettering above the window and on the beaten copper fascia under the window is decidedly "art nouveau," and seems to have been added in the Edwardian period.



## *Correct vitamin balance for all ages*

From the youngest to the oldest the routine administration of ABIDEC\* ensures an adequate intake of vitamins in well-balanced proportions.

For infants and children Abidec DROPS are the ideal supplementary multivitamin treatment. For adults Abidec CAPSULES are invaluable in correcting suspected deficiencies due to bad dietary habits.

# ABIDEC

\* Trade Mark

*Abidec Drops are easily administered to infants and children, in food, a single daily dose being adequate. For adults, adequate intake is obtained with ONE Abidec Capsule Daily.*



Parke, Davis & Company, Limited (Inc. U.S.A.) Hounslow, Middlesex. Tel: Hounslow 2361



# The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

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TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

## Smoother Waters Ahead?

DURING the past year or two the climate of public opinion, no less than the mien of the Ministry of Health (possibly forced into a frown by the Treasury and the Public Accounts Committee) has been hostile rather than friendly towards the pharmaceutical manufacturing industry.

There are indications of a rift in the clouds at least so far as the Government is concerned, though it would perhaps be unwise to run up too much sail until the early indications have been strengthened. As will be seen from the report (on p. 223) the Treasury and other Government departments have come to the conclusion that the general level of profits earned on standard drugs and pharmaceutical products holds no suggestion that excessive prices are being charged to the National Health Service. The Treasury minute which records that conclusion also discusses the difficulty there is in deciding what are "fair and reasonable" prices. It is true that the Treasury minute is much more "cagey" in its references to proprietary medicines, about which discussions with the industry are still proceeding. But the fact that there are references to "the complexity of the situation" are at least an indication that the Government departments concerned are not in an altogether unreasonable state of mind, and that any eventual crystallisation of price policy will take into account the "complexities," of which the principal is, of course, research and its continuance. The Minister of Health showed during his reply to the debate in the Commons on February 16 (see p. 222) that he is fully alive to the special demands that research makes upon the pharmaceutical industry and that those demands are apt to be reflected in the prices charged for the industry's products. The Minister also showed that he recognises the importance of the contribution that the industry is making to exports.

So far as the public is concerned its views on questions of this kind are usually, or frequently, a reflection of what has been gleaned from the public Press. If the points made in two articles in *The Times* on "How Dear are Drugs?" find acceptance and spread to a gradually widening section of the community, a much more sober appreciation of the situation should result. It is axiomatic that the health of the public must not be prejudiced by action that may cut off research at its roots, and the industry can have confidence in its future.

## Overseas Trade in January

UNITED KINGDOM exports for January amounted to £248·7 millions, £7 millions less than the exceptionally high figure reached in December 1954, in which there were one fewer working days. The figures for January probably again include some shipments delayed by the dock strike. Re-exports in January were valued at £10·5 millions, while imports amounted to £332·6 millions, bringing the average for the past twelve months to £300 millions a month. The excess of imports valued, c.i.f., over exports and re-exports, valued, f.o.b., was £73·5 millions in January. The average excess for the last four months was £62·9 millions a month.

Drugs, medicines and medicinal preparations exported during the month totalled £3·3 millions. Australia was by far the biggest customer, taking goods in that category valued at £400,625, while India was next with £227,807. Compared with the previous month, exports of pharmaceuticals were down some £170,000, but imports were up by £117,000, thus following the country's general trade pattern. The high import value of prepared medicines was attained despite antibiotics being well below their usual value. Increased imports of proprietary, and other medicines would appear to be the cause of that rise. The value of shipments of penicillin continued to decline while most other pharmaceutical products were about recent monthly levels.

Export and import values of a number of pharmaceutical and allied products are given in the table below.

	EXPORTS	VALUE
Drugs, medicines, medicinal preparations (total)	3,295,517	£
Quinine	26,357	
Proprietary medicines	861,569	
Aspirin	116,093	
Insulin	56,360	
Penicillin salts	107,380	
Penicillin injections	85,373	
Penicillin tablets, ointments, etc.	64,210	
Antibiotics other than penicillin	551,424	
Antipaludics	52,833	
Sulphonamides	111,301	
Vitamins	245,868	
Alkaloids, excluding quinine	75,669	
Barbiturates	40,701	
Antihistamines	51,341	
Acetone	37,241	
Citric acid	26,886	
Salicylates	14,244	
Glycerin	22,564	
Essential oils, natural	42,415	
Perfumery and toilet preparations		
Lipstick, face powder, etc.	214,749	
Dentifrices	161,885	
Toilet soaps	187,588	
	IMPORTS	
Borax	70,344	
Iodine	147,711	
Menthol	56,733	
Vitamins	130,796	
Antibiotics	35,288	
Proprietary medicines	44,179	
Unclassified medicines	421,796	
Essential oils		
Bergamot	6,915	
Clove	45,046	
Lavender	24,604	
Lemon	107,754	
Orange	19,986	
Peppermint	104,387	
Unclassified	366,366	

## Out-patients' Prescriptions

THE debate in the House of Commons on the Health Service supplementary estimates (see p. 222) revealed some support for suggestions (a) that prescriptions issued for hospital out-patients should be dispensed in hospitals and (b) that pharmacists should be attracted by "salary adjustment" into the hospital pharmaceutical departments and away from retail pharmacies (where, apparently, they cause some dissatisfaction by spending "part of their time in pharmacy and the rest . . . as shop assistants"). The two suggestions were put forward as being ways of spending money in order to save more.

That the hospital pharmaceutical departments require more money spent on them, both by way of salaries and capital expenditure, is undeniable. But the prime need of the moment is to see that present commitments are properly met. Expansion—especially along lines that must awaken controversy—can well wait. Mr.

T. D. Whittet's letter in the *Daily Mail* on February 2 (see p. 219) exposes the present strained resource of hospital pharmacy. In the House of Common debate Sir Hugh Linstead indicated where the real saving in hospitals can be obtained: by raising the status of the pharmacist so that his advice to consultants on better and more economical ways of treating their patients in hospitals will be listened to with respect.

Those Members of Parliament who consider that dispensing by retail pharmacists is more expensive than hospital dispensing would do well to remember first that the retail pharmacist provides a dispensing service where it is most needed: near the patient's home; and secondly that if he has to spend (or a one speaker in the debate said, mis-spend) some of his time as a "shop assistant" or "selling scented soap" he is driven to do so under existing conditions in order to subsidise the service that he provides for National Health Service patients.

## Onward from Galen A CURRENT CAUSERIE

WHEN one considers the number of athletic records that are set up each year it comes as a shock at first to hear from such an authority as Sir Adolphe Abrahams (p. 220) that the athlete of today is no better than the athlete of 100 years ago, that he is not physically stronger, that he has no greater fortitude, or courage. He does not train as hard (training in the old-fashioned style with all its prohibitions and restrictions and its mumbo-jumboism, its prejudices, taboos and all the rest). According to records of that time it is clear that the candidate or aspirant to athleticism was regarded as a mass of corruption, his body filled with what were called "obnoxious crudities" which had to be eradicated by a process of purification as a preliminary measure. Accordingly he was subjected to a course of emetics, of violent purgatives, forced sweatings, and even of venesection. His diet consisted of large quantities of almost raw meat, no vegetables, dry stale bread and the minimum of liquid—the minimum consistent with bare existence, and certainly a good deal less than was consistent with comfort. The secret of the modern athlete's success must be that he trains ever so much more sensibly and efficiently and that he realises the essential feature of training is the amount of physical work which the body can undertake rather than what food he eats.



A MORE ambitious effort than the miniature Almanack recently mentioned in these columns C. & D., February 5, p. 144) was the "Illustrated Almanack for the year of our Lord 1890," produced by "W. W. Callander, Dispensing and Family Chemist (by Examination)," of Ilminster. The Almanack ran to 64 pp. plus cover, and the page size was 7½ x 5 in. There were many charming steel-engraving illustrations, verses, anecdotes, jokes, gardening notes, as well as general and local information and of course, numerous advertisements. Mr. Callander, in presenting his Almanack, thanked the inhabitants of Ilminster and neighbourhood for the liberal support accorded to him during the previous nine years, and hoped, by still exercising great care in the selection of drugs and chemicals, to receive their increased support. "The greatest attention is paid to the faithful discharge of the duties attached to the Dispensing Department, which is replete with every modern appliance for preparing Physicians' and Surgeons' Prescriptions with accuracy, care and despatch." Mr. Callander's business covered a wide field. He undertook microscopical analysis and examination of animal, vege-

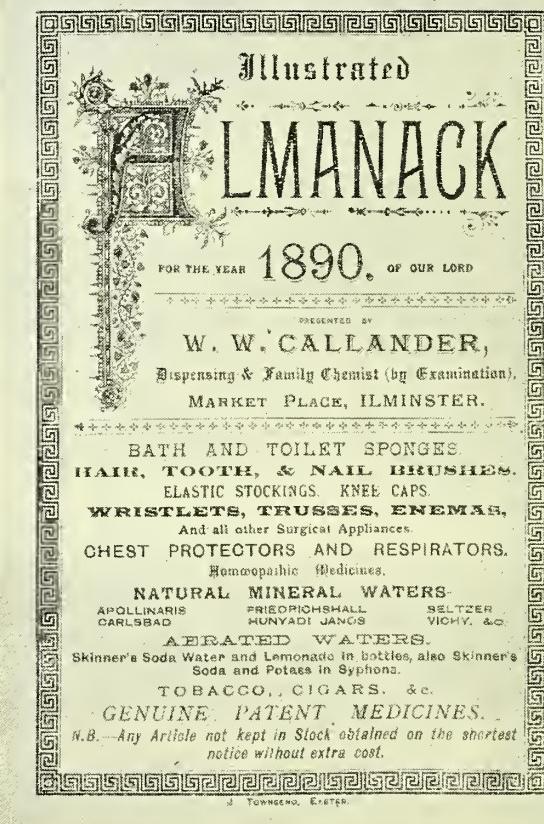


table and mineral substances. He also had "a large and varied stock of purses from 6d. each," sold pipes, pouches, smoking requisites, including "cigars British and Foreign," trusses at low prices, spice cordials, tea, animal medicines, dog biscuits, butter colouring and cattle cake. Callander's superior furniture polish was "once tried, always used," and his insect powder wrought "unparalleled slaughter" ("hundreds killed in one night"). Presumably the booklets were issued free.

# PHARMACY IN SARK

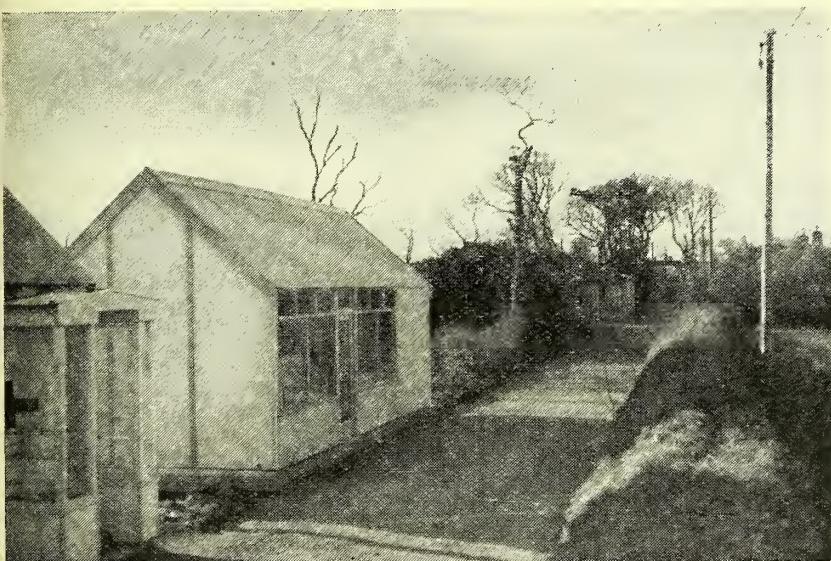
BY CHARLES BOLLEN BLORE, F.P.S., F.S.M.C.

**P**HARMACISTS in Great Britain can today, I suppose, hardly imagine life without the National Health Service, but there is no such thing in the Channel Islands, and Sark is the most Channel-Islandish of them all! Not only have we no Health Service: we have no inspectors, no income tax, no rates, no purchase tax. Indeed, this Island must be the oddest corner of the United Kingdom, being at the same time part of the Bailiwick of Guernsey, yet partly independent. The permanent population numbers about 400 (think of that in terms of population per pharmacy in England!), but each year we have 30,000 to 50,000 visitors who come for periods from a day upwards. Some come every year, some never come again!

There is little dispensing to do, but one may be asked for anything. Years ago, when Miss M. E. S. Durand founded the business, an assortment of the ordinary galenicals no doubt enabled her to meet almost any prescription, but, with the welter of modern ethicals fashionable even in the

hypochlorite solution. Most of the locals are immune to the usual contaminants, and my advice passes unheeded. (Perhaps I am a bit queer.) But some visitors react differently to it. Our milk is rich in fat, two gallons yielding a pound of butter, and that is often blamed for gastric disturbances, though wiser heads think otherwise. At all events, Mist. kaolin. et morph. is in great demand. On the other hand there has never been a major epidemic in Sark; *Bacillus Sargiensis* is quite tame!

Sark's pharmacist.



THE PHARMACY ON SARK, looking west along the Avenue. The patois name for the Avenue is *Les Caches du Manoir*. It was originally a private drive to the Manor house, and as recently as fifty years ago was gated.

Channel Islands, the story is different. I have never encouraged our doctor to hand over his dispensing to me. He prescribes what he has in stock; were he ever to start writing prescriptions for present-day favourites, I should be badly out of pocket, for there is no claiming for unused residues!

## Supplies

Supplies come mainly from London. Under the best conditions that means three days' delay—much longer when senders disregard my instructions for dispatch, or let the parcel lie four days in the warehouse while the office boy looks up the Customs regulations. There is no telephoning the nearest wholesaler and getting an urgent item brought to the door by some member of the staff who passes on his homeward trek. Budgeting for stock is difficult. Someone on the island tries some product for something, recommends it to his multifarious relatives, and hey presto! I am out of stock. It is quite common for me to have to divide a large size between two or more people.

There is no piped water supply on the Island, and most of the wells are shallow. I frequently advise people to sterilise their water, either by boiling or with a proprietary

of poisons, naturally I cannot hand over dangerous substances indiscriminately. There is no inspector to ask me for the prescriptions for Schedule 4 preparations, but I sometimes envy pharmacists on the mainland who can say quite simply and truthfully, "I am sorry, madam, it is against the law." One has to be much more tactful with the unknown visitor who calmly asks for paper and writes a prescription for Dramamine or Nembutal and signs it . . . M.B., Ch.B. Anyone could do that, especially in Sark, but it does not follow that he gets what he seeks, even here. It is a bitter pill for the client to swallow, be it gilded ne'er so well, when, with all available tact, we point out that a British medical qualification requires individual recognition by the Royal Courts of Jersey and Guernsey before it is valid in the respective islands, and that the Chief Pleas of Sark must grant a doctor leave before he can practise in this Island! You who sometimes execrate the pharmacy laws in Great Britain do not always count your blessings. Although I enjoy a great apparent freedom, I have no doubt that, if an accident occurred and the supply were traced to me, the Society would tell me quite firmly and pointedly that I ought to have known better.

I suppose my pharmacy is unique in many ways. Apart from the concrete base, I built the premises with my own hands, using Dexion steel angle and asbestos sheets. It is

## The Island's Scientist

I have been called on to determine the percentage of sodium benzoate and sodium nitrite in the cooling water at the power station. These salts are not naturally occurring impurities but anti-corrosives added to counteract the high chloride content of the water, which is quite unsuitable for many pharmaceutical purposes and even for some photographic ones. I am the one who chloroforms cats and dogs and straps up damaged wings of seagulls. I make gin bottles of a locally popular cow medicine and rather suspect that the flavour of inf. gent. co. conc. and spt. ammon. aromat. has made them drugs of addiction in certain bovine families here.

Work in the season is hard and exacting, as I do my own developing, printing and enlarging, giving a twenty-four hours' service. While no one checks up on me regarding sales

lined with Sisalcraft paper and Treetex board. We rarely have frosts and snow never lasts long. It is unusual for temperatures to drop below the middle thirties but, with the high humidity, that can seem very cold. Tins rust easily, cartons unseal themselves and labels set in solid bricks. Handwritten labels quickly fade, unless written with carbon inks; obligingly they remove themselves from the bottles. From the back of the premises I look across twenty miles of La Manche to the north-west tip of Jersey, and from the doorstep, looking eastward, I can see on a clear day the yellow sands of the Cotentin peninsula. Wild flowers grow almost up to the doorstep.

Goods in tea-chests, having survived shipment on two boats (and sometimes a dose of British Railways, if I have been unable to prevent it) are hauled up the 350-foot Harbour Hill by horse and cart or, more usually nowadays, by tractor and trailer. They arrive on Mondays, Thursdays or Saturdays, weather permitting. My assistant and I eagerly unpack them, hoping that the malt extract and cod-liver oil has been confined to the jars and not, as one day last year,

poured over a tea-chestful of mixed proprietaries. That was not so dreadful as might be thought, for the Sark people don't mind having their tooth-paste without cartons. It was, however, annoying when somebody sent a dozen large Metatone across the Channel with only a sisal cord round the maker's corrugated carton.

During the season I get a number of pharmacist visitors who pop in for a chat and sometimes try to buy the business. Representatives make it a day off between their Guernsey calls. Naturally the only pharmaceutical functions are in Guernsey or Jersey and one is too busy to go over in the summer, when there is a daily boat service, and it is too expensive to go and stay several nights in the winter, just to attend a meeting or go to a dance. I did, however, attend a meeting in May this year and it was interesting to hear my pharmacist friends there discussing their problems on the larger island. I felt glad that most of those problems did not worry me, for there is still, in Sark, a breath of freedom that has not been breathed in England (or Guernsey) for many a day.

## MEDICAL ABSTRACTS

### RECOVERY AFTER OVERDOSE

BROWN and Ellis (*British Medical Journal*, 1955, 1, 268) give a case report describing the recovery of a woman who had taken approximately 10 gm. of methylpentynol in a proprietary elixir. The woman, aged thirty-nine, weight 7 st. 8 lb., was admitted to hospital in a deep sleep. She responded faintly to pressure on the supraorbital nerve, and her general condition was good. Methylamphetamine hydrochloride 30 mgm. was given intravenously every half-hour, and three hours after admission the patient was less deeply asleep and half-opened her eyes when spoken to. Six-and-a-half hours after admission she was able to speak and answer questions, though still drowsy. At that point the methylamphetamine hydrochloride was discontinued. The woman was fully recovered two days later.

### CANTHARADIN POISONING

GIVING post-mortem findings in two cases of cantharidin poisoning, Nickolls and Teare (*British Medical Journal*, 1954, 2, 1384) conclude that it would appear that there is no minimum toxic dose for solid cantharidin. A minute crystal of the drug, they state, weighing not more than 0.5 mgm., lodging in the mucosa, will produce a blister that could prove fatal. After absorption the cantharidin will produce secondary effects in the excretory organs since it does not seem to be decomposed in the body. The fatal dose would appear, from the cases described, to be certainly less than 1 gr. (65 mgm.) of crystalline material. If the substance is ingested in solution the fatal dose is probably less than that of the solid cantharidin.

Craven and Polak (*ibid*, 1954, 2, 1386), after describing a case of oral cantharides poisoning, argue that since cantharides preparations have no special virtue but are highly dangerous, they should no longer be made available for therapeutic purposes.

### EFFECTS OF METHYL PENTYNOL

AN investigation into the effect of methylpentynol and a comparison of those effects with the actions of ethyl alcohol are reported upon by Trotter (*Lancet*, 1954, 2, 1302). A machine simulating a car with accelerator, brake and clutch pedals was used to test the reaction of persons taking part in the experiments. Fifteen minutes after the administration of 500 mgm. methylpentynol it was found that in seventeen instances (average of three readings) the speed of reaction was improved, in twelve unaltered and in thirteen deteriorated. An hour after the administration of methylpentynol the speed of reaction was improved in nineteen tests (averaging three readings), unaltered in fifteen, and deteriorated in eight. In those tests false responses were about 1 per cent. Fifteen minutes after the administration of the equivalent of 6.4 drachms pure alcohol it was found that in five tests (average of three readings) the speed of reaction was improved, in eight unaltered, and in thirteen deteriorated. An hour after the administration of ethyl alcohol the speed of reaction was improved

in two tests (average of three readings), unaltered in eight, and deteriorated in six. In those tests false responses were about 12 per cent. Subjective findings were that although there was a change in the subjects' outlook and approach after the administration of methylpentynol, their carefree attitudes were not those of recklessness or abandon, nor was the power of concentration apparently impaired. After the administration of the ethyl alcohol there was far less elation than with the methylpentynol. A second set of tests were made using a McDougall-Schuster dotter. The machine consists essentially of a gramophone turntable on which is placed a chart marked with dots arranged in a spiral from the centre to the periphery. The dots appear in an aperture in the lid of the machine as the turntable revolves and may be cancelled with a pencil. Fifteen minutes after the administration of 500 mgm. methylpentynol the speed of reaction was improved in twenty tests, unaltered in two, and deteriorated in two (average improvement over normal, thirty-five cancelled dots). An hour after the administration of methylpentynol the speed of reaction was improved in fifteen tests, unaltered in two, and deteriorated in seven. Fifteen minutes after the administration of ethyl alcohol (eight drachms of whisky) the speed of reaction was improved in two tests, unaltered in none, and deteriorated in eight. There was a significant decrease in the number of dots cancelled (average decrease from normal, thirty). An hour after administration of alcohol the speed of reaction was improved in one test, unaltered in six, and deteriorated in two (one result unobtainable). Fifteen minutes after the administration of blank capsules the speed of reaction was improved in one test, unaltered in six and deteriorated in one. An hour after the administration of blank capsules the speed of reaction was improved in three tests, unaltered in five, and deteriorated in none. The subjective reactions of those who received the blank capsules were generally that there was no variation from normal, but one noticed a significant difference. Two thought that there was a catch based on the lack of effect and on the fact that there appeared to be no difference in their approach to the tests. The author concludes that methylpentynol in the correct dosage has a negligible deleterious effect on behaviour and that its administration is safe for ambulant patients.

### A PHARMACIST'S ANTHOLOGY BELIEF IN MEDICINE

*From "The Guermantes Way," by Marcel Proust.*

FOR, medicine being a compendium of the successive and contradictory mistakes of medical practitioners, when we summon the wisest of them to our aid, the chances are that we may be relying on a scientific truth, the error of which will be recognised in a few years' time. So that to believe in medicine would be the height of folly, if not to believe in it were not greater folly still, for from this mass of errors there have emerged in the course of time many truths.

# A MODERN COURSE OF PHOTOGRAPHIC STUDIES

By

H. BAINES, D.Sc., F.R.I.C., F.I.B.P., HON. F.R.P.S.

## 11. SUBSTANDARD CINE PROJECTORS AND SCREENS

By MORTIMER SHAPLEY

### PROJECTORS

THE methods of taking cinematograph films having been considered, attention must now be given to their projection on to a screen. The projection of single still pictures follows the ordinary optical projector principle in that a light-beam condensed on to a film throws an image via a lens on to a screen. For the projection of cine films there must also be, beside the optical principle involved, mechanical arrangements for moving the strip of film at the specified rate, one picture at a time, and for cutting-off the light by means of a shutter during the time that the film is moved.

#### MECHANISM

The mechanical principle of the cine projector is, in general, the same as that of the cine camera. Beyond the essential requirement of effecting the movement of the film at the proper intervals, the design must be such as to minimise friction between any part of the projector and the film and to protect the film from jerks, which may lead to breaking or tearing.

The film is taken from a supply reel by the rotation of a sprocket, and made to form a loop. This is necessary, as in the camera, to allow for the intermittent motion of the film in the gate, where it is held between guides, which grip the film lightly. Usually a little below the gate, claws enter the perforations at the appropriate time, pull the film down one frame, and withdraw. After the film has passed through the gate, it is taken down, via another loop, on to the take-up reel. A fundamental point in the design of the projector is that proper registration shall be obtained in the gate of frame after frame of the film, as otherwise the projected picture will dance about on the screen.

#### Intermittent Movement

In most projectors the intermittent movement, which is necessary to allow the film to be stopped in the gate while the light is passed through it, is obtained by a claw mechanism actuated by synchronised cams. In many there is a double claw (in tandem) or even a triple claw so as to ensure that a film will continue to run even when perforations are missing or torn.

#### Motor and Fan

Almost without exception, projectors nowadays are driven by mains electric current. Most projectors of silent

films incorporate a universal a.c./d.c. motor with a resistance for coping with different line voltages. Most sound machines include an a.c. motor with a tapped transformer to set the voltage.

In many projectors the fan, placed at the end of the main shaft of the motor, produces a forced draught which is ducted to the parts to be cooled. In other cases the fan is belt-driven from the motor.

#### Shutter

It is obvious that, during the time that the film is in motion through the gate, no image must be projected. The light is, therefore, interrupted at that time by a rotating shutter, the mechanism of which is synchronised with the claw mechanism so that a "cut-off" period occurs at the correct time. In order to relieve the film of the heat dissipated by the lamp, the shutter is invariably made to run between the condenser and the film.

In the previous instalment of this series it was stated that the minimum frequency of projection that will produce the effect of movement on the screen is 12 per second. That frequency, however, is not sufficiently high to eliminate flicker although, in error, it was said to be.

With the great intensities of light involved in projection, flicker becomes apparent unless due precautions are taken against it. One means of avoiding the distraction is to increase the frequency of interruption of light on the screen. The use of a three-bladed shutter with a silent projector running at sixteen frames per second produces a satisfactory frequency of interruptions of forty-eight per second. With sound projectors, however, the normal speed is twenty-four frames per second and for these a double-bladed shutter is all that is needed to obtain the same frequency (forty-eight per second). Only one of the blades of either the double-bladed or the triple-bladed shutter cuts off the light during the "pulling-down" of the film, the other blade or blades merely providing the necessary frequency of light interruption.

If the shutter is slightly out of adjustment, so that a cut-off period does not coincide with the pull-down period, a ghost image shows on the screen, with the characters slightly out of position. If it is greatly out of adjustment the picture does not appear steady and gives the impression of being viewed through a shower of rain; the result is quite unsatisfactory. Whether the fault is severe or slight, it can usually be corrected by readjusting the rotational position of the shutter blades on the spindle. In order to give the greatest possible illumination on the screen, the size of the shutter blades is frequently cut down to the absolute minimum. In practice, the amount of time that a frame is stationary in the gate is usually something like four to five times that taken by the pull-down movement.

#### Safety Shutter

When the speed of the projector falls below a certain minimum level, it is usually arranged that a heat-absorbing filter, usually either of gauze or of special glass, falls into the optical axis and considerably reduces the amount of light and heat falling on the film, thus protecting it from damage. In some projectors, there is what is termed a still-picture device, by which the projector may be stopped at any time and the picture on the screen studied or analysed. That is not otherwise possible because of the great heat emitted by the lamp and its deteriorating effect on the film, but if a heat-absorbing glass filter is used as a safety shutter, then such study or analysis of single frames can be made. The device usually incorporates a clutch which, although disengaging the claw mechanism so that the film remains motionless in the gate, leaves the fan in operation to continue its work of cooling and ventilating.

#### ILLUMINATION

The projector lamp must be of high intensity in order that a sufficient screen brightness shall be available. If the level

of illumination is too low, the contrast of the film will be low and detail will not be adequately visible. Conversely, if it is too high, the highlights of the image on the screen will appear "burnt-out" and flicker may become apparent. However, the usual problem is to obtain sufficient light on the screen.

It must be emphasised, however, that the brightness of the picture is dependent not only upon the quality of the film, the lamp, and the efficiency of the optical system and the screen, but very markedly upon the projector-screen distance (the "throw"). This, in practice, affects the screen brightness according to the inverse square law in that, if the throw is doubled, the intensity of light falling upon the screen is cut to one-quarter. Conversely, if the throw is halved the screen brightness is quadrupled.

### Lamps

In substandard projectors, tungsten lamps are almost invariably used as the source of illumination, though arc lamps are sometimes used where high intensities are required. Other sources such as Pointolite and high-pressure mercury-vapour lamps have been used, but rarely. The wattage of the tungsten lamps varies normally from 100 to 1,000, with the working voltage in the range 100 to 250 volts. The maximum width of screen picture that can easily be obtained with a 1,000-watt lamp is 10 ft., but the normal desirable maximum is considered to be 8 or 9 ft. By the use of high-intensity arcs, pictures of 12 or even 15 ft. width have been obtained.

Low voltage provides a greater efficiency of lamp operation than that given by the usual mains voltage in this country (230 to 250), and the great majority of projectors are constructed to give a voltage at the lamp socket of 100 to 120 volts through either a resistance or a transformer. That reduction of voltage from the normal mains level enables a smaller filament to be used in the manufacture of the lamp, producing a greater brightness per unit area. Some manufacturers even provide voltages down to ten or twelve, but whether or not that is warranted is debatable.

Most lamps nowadays are set into their correct position in a projector by the use of a prefocus cap, which is so designed that it can be inserted only in one position. This ensures that the filament is in the correct position relative to the optical axis of the machine.

A projector is designed to take a lamp of a particular wattage, and there is usually not much point in trying to improve the intensity of the illumination by inserting a higher-wattage lamp. The gain obtained does not approach what might be expected from the relative wattages of the two lamps, and any gain is usually offset by troubles arising from the greater heat and the inability of the projector to cope with it.

### OPTICS

The size of the projected picture is dependent on the frame size, the focal length of the lens used, and the throw. Assuming one frame size and a constant focal length, it is obvious that the only variation that can be made is by varying the throw. Conversely, if the throw is limited, the only possible variation is that of the focal length of the lens.

The optical system, if efficient, must ensure an adequately even distribution of light over the whole of the screen, including the corners.

### Mirror

In order to utilise the light emission from the lamp to its greatest degree, a mirror is set behind the lamp to reflect light forwards along the optical path. The mirror, strictly, should be parabolic in shape, in order that a parallel beam may be thrown from it, but for simplicity many of the mirrors in use are spherical concave mirrors, which seem to work admirably.

### Condenser

In order to produce a beam of light of even intensity over the whole of the frame area, a condenser is normally inserted between the lamp and the gate. It frequently consists of two plano-convex lenses which operate in principle just as the condenser system of an enlarger. The light from the lamp is collected by the condenser and is projected through the film to form a focus within the projector lens. That system ensures that as much as possible of the light is transmitted so that the maximum is thrown upon the screen.

The position of the condenser is usually carefully set by the manufacturer of the projector. However, if by some means it falls out of adjustment, it should be reset very carefully by examining the light thrown upon the screen and adjusting until no blue shadows appear at any of the corners of the projected image.

### Lens

The lens projects an image of the illuminated film in the gate on to the screen. It is normally an anastigmat lens corrected for use over the range of distances most frequently used in substandard work. Focusing is undertaken normally by rotation of the lens in a helical mount so that, by a simple rotatory movement, it moves along its axis nearer to or further from the film.

As with a camera, the larger the aperture of the lens the more light it will pass, and so the brighter the projected picture will be.

As the correction required for a standard projection lens is much less than that required for a camera lens, likewise the cost is less and the use of very wide aperture lenses is quite common (e.g., values of f/1·4, f/1·6 and f/1·9).

### CONSTRUCTION

Most projectors are relatively heavy in construction, as they are frequently made of an assembly of castings. The quality of the assembly varies according to cost, but most projectors on the market at the present time, from the very cheapest upwards, function in a perfectly satisfactory manner so far as amateur use is concerned. However, the sprockets and rollers and all other parts of the projector that have contact with the film should be designed to cause the minimum amount of wear on the film. It is admirable if such working parts are made of metals with high resistance to abrasion, such as stainless steel, chromium-plated brass, etc.

### Gate

The gate through which the film travels, and in which it is stopped as each frame in turn is projected on to the screen, usually consists of two plates. One of these is fixed to the body of the machine, but the other is movable, in some degree, on a vertical axis, and is spring-loaded to hold it into contact with the fixed plate. In a well-designed gate pressure on the film as it goes through the path between the two plates is reduced to a minimum.

### Reels and Arms

There are normally provided on a projector two arms, each of which carries a spindle designed to hold either a supply reel, or a take-up reel for winding up the film after it has passed through the gate. In some cases the top arm is made in such a fashion that, when placed in the appropriate position, it can be used as a carrying handle for the machine.

The take-up spindle is normally driven by a belt running between pulley wheels or sometimes by gears. This drive is designed to slip if too great a tension is exerted, and the film, therefore, is less inclined to break if, when there is an inadvertent stoppage, the motor continues to run.

The normal size of reels taken by a 16-mm. machine is 400 ft., but certain projectors, particularly sound machines, have provision for the use of reels of up to 1,600 ft. With

9·5-mm. film the normal standard is 300 ft., and with 8-mm. film 200 ft.

## OPERATION Threading

The path which a film should take in a projector is frequently indicated by a marked line on the body. Where that is not done full instructions are usually given in the instructional matter issued with the machine. Normally the film is unwound from the top supply reel at a constant steady speed by the top sprocket. A loop is then made when inserting the film in the gate. At the bottom end another loop is made, and the film is taken, via the bottom sprocket, on to the take-up reel, which because it is rotating at the correct speed, or slightly faster, winds up the film in proper fashion. Care should be taken in threading as it is easy for the film to be broken if that is done carelessly.

With films made from reversal stock, such as are usual for most amateur work, the emulsion side of the film should face the lens. When the film is a print from a negative the emulsion side should face the condenser.

## Running

Once the film has been correctly threaded—and this should be tested before the room lights are turned off—the only running control is that of speed. The speed adjustment on projectors is normally covered by a rheostat and controlled by a knob on the main body of the machine. There is no scale by which the machine can be set to run at, say, 16 f.p.s., as that would vary greatly with the mains voltage from time to time. However, it is relatively easy to set this control once the movement on the screen has been seen.

Cleanliness and the removal of dust are essential for the proper functioning of any projector. It should always be replaced in a box whenever it is not in use, and from time to time the lens, condenser, and mirror should be cleaned with a clean, soft, worn handkerchief or preferably with lens-cleaning tissue. Adequate lubrication also is essential; the manufacturer normally indicates the points at which it should be given and with what frequency.

## Rewinding

The facility for mechanically rewinding film once it has been projected is now provided on the great majority of sub-standard machines. The most simple method is to allow the whole of the film to run on to the take-up reel. The end of the film is then unwound and inserted in the slit in the supply reel. After interchanging the belts, so that the supply reel can be driven while the take-up reel is allowed to run free, the motor is started, slowly at first, while a finger is lightly pressed on the edge of the take-up reel to prevent the film from unwinding at too fast a rate. The machine is then stopped when the whole film has been transferred back to its original reel. On some machines, this facility is rather more elaborate, but in all cases the same result is achieved and the film is returned to its original reel ready, if necessary, for immediate re-projection. An important point is that the film on its return journey does not go back through the gate but straight between the reels and in front of the lens. That is essential if undue wear to the film is to be avoided, but in any event the claw mechanism and the sprockets do not operate in reverse.

When a film is borrowed or hired from a film library, a common condition of the service is that the film shall not be rewound before being returned to the library. That stipulation is made for two reasons. First, many people are not sufficiently careful about rewinding of films, and secondly the library must go through the film to check for breaks, etc., before it is loaned to the next person. If the film has not been rewound, that need be done only once.

## Framing or Racking

The movable metal plate which forms part of the gate has a small vertical movement so that the mask which it

contains can be lined-up properly with the particular frames being projected. That is to ensure that the projected picture on the screen is not marred by the appearance of a horizontal frame line. In fact, it compensates for contraction or expansion of the film between the gate and the claws, which are usually several frames below. It is, however, a simple matter to adjust for this at the beginning of each film being shown.

## SCREENS

In order to obtain the greatest possible light from a projector, it is essential that the screen, of whatever type, should be clean. A sheet or a plastered wall is a poor screen, even when clean, as it absorbs a great proportion of the light, sometimes as much as 50 per cent. For the best results, therefore, it is necessary to use some form of special screen designed for the purpose. When a make-shift screen must be used, however, blotting paper (not photographic blotting paper) proves a reasonable substitute.

There are three main types of screen, each of which has its adherents and each of which, for particular purposes, is considered to be the best. All three are usually available in the self-erecting automatic form which is so convenient in the home.

The principal differences between the three types is in their light distribution and their reflectivity characteristics.

### MATT-WHITE

If for a showing the audience is to be assembled over a wide arc around the screen the most suitable type is the opaque matt-white, frequently of canvas, which allows a relatively even reflected image to be seen even at an angle of 30-40°, and sometimes more, from the projector-screen axis.

### SILVER

The silver type of screen is most satisfactory when the angle concerned is very much lower, and when the audience is assembled largely around the projector-screen axis. The principal characteristic to be appreciated with this type of screen is that it acts to give normal specular reflection, i.e., it behaves in a similar way to a mirror. It reflects much of the light received and gives good results provided the angular limits are realised and appreciated. Those limits are not normally greater than about 25° on each side of the projector-screen axis, but quite large variations can be measured between the product of one manufacturer and that of another.

### BEADED

The beaded type of screen consists of a multitude of tiny glass beads mounted in a transparent medium on a cloth backing. It does not usually obey the normal laws of specular reflection. Indeed, most of the light is sent back along the path from which it was received and usually over an even narrower angle than that given by the silver screen. However, the image that is seen at or near the axis is extremely bright and in certain circumstances this type of screen can be most satisfactory. It should not be used when a greater angle than about 15° from the axis is required. Owing to its construction, a beaded screen is rather more susceptible than others to mechanical damage.

A recent innovation with this type of screen is the matting of the surface of the glass beads. Experiments have shown that that may serve to increase the angle from which a brilliant picture can be seen.

## INFORMATION WANTED

*The Editor would appreciate information about suppliers of the following items:*

ARTHROSINE tablets  
VIOHEMOSTASINE

DOKA TROZOPYRIN injection  
GLASCON No. 9

CAPSTAN anti-fungus

## HOSPITAL PHARMACY FORUM CLINICAL TRIALS

THE recent outcry in Parliament about the clinical trial of certain penicillin preparations in infants has drawn attention to the whole question of therapeutic trials. There is a strong public feeling against experimental medicine; the very word experimental arouses resentment and dark suspicion of nefarious ends. Yet surely every treatment is, in a sense, an experiment. In some cases the actions of the drugs may, through long experience, be safely predicted, but in many cases the treatment is a trial. Where the individual is treated without regard to any planned experiment, the observations in his case go to augment a series of observations in other similar or presumed similar cases. However, no control can be made to ensure that the drug has in fact the beneficial results claimed for it, and to show that the impression gained is not a purely subjective one induced by hope or by suitable propaganda. Even the best clinicians are liable to be deceived by such subjective impressions. Where it is possible to compare the actions of two drugs in two groups of patients it is possible to obtain statistical comparisons that remove the conclusions from the subjective to the objective plane.

The hospital pharmacist may play a valuable rôle in the carrying out of such experiments by controlling the issue of the compounds to be compared. It is much more convenient for the physician to be unaware which patient is receiving which drug until the time arrives for assessing results, at which time the pharmacist divulges the key to the "test" and "control" materials. Many drugs or mixtures of drugs gain acceptance without such critical evaluation, and it would be to the general good if more, not less, experiments were made. A recent development in American hospitals may be of interest in this connection. In an increasing number of hospitals a Therapeutics Committee, consisting of representatives of the medical and surgical teams, with the pharmacist as secretary, draws up a list of basic drugs that are generally accepted as effective therapeutic agents. Those drugs may be freely prescribed throughout the hospital. When a new drug comes along it may not be admitted for use until it has been scrutinised by the committee and approved. Drugs required for clinical trial are reported to the pharmacist and are subjected to a controlled trial by any interested member of the medical staff. After an agreed period the committee receives a report of the trial and considers the suitability of the drug for admission.

It may be that such a procedure would not be acceptable in many hospitals in this country, for our medical colleagues guard most jealously their independence of action. The logic of the system, however, is strong. If given a fair hearing it may find acceptance. It would obviously be wasteful of effort for a complete trial to be carried out in every hospital, but by working in groups and exchanging information a most valuable sifting of current *materia medica* could be achieved.

## NEW BOOKS

### Development of Veterinary Therapeutics

A. G. FISHBURN, F.P.S., A.R.I.C., and C. F. ABBOTT, B.PHARM., B.Sc., F.P.S., A.R.I.C. *The Pharmaceutical Press*, 17 Bloomsbury Square, London, W.C.1. 8 x 5 in. Pp. 24.

FOUR articles that were first published in the *Pharmaceutical Journal* are here reprinted as a paper-covered booklet. Three parts are concerned with history. The fourth (6 pp.) reviews modern developments.

### British and Overseas Pharmacist's Year Book, 1955

*British & Colonial Druggist, Ltd.*, 194 Bishopsgate, London, E.C.2. 8 x 5 in. Pp. 156 + Ixi. 5s.

RECENTLY published, the Year-book contains much useful information, including an outline of the principles of bio-

chemistry and physiology, summaries of legislation affecting pharmacists, a veterinary section, directories of organisations and manufacturers, together with pages for noting addresses or entering cash transactions.

### Driver's Handbook for C-licence Holders

R. E. G. BROWN, F.C.I.S., M.I.N.S.T.T. *Traders' Road Transport Association*, 146 New Bond Street, London, W.1. 5½ x 4½ in. Pp. 40. One shilling.

REVISED edition of a handbook of which 70,000 copies have been sold, the booklet was written by the secretary of the Association's London and Home Counties division. It is brought up to date in respect of lighting regulations and speed limits for empty light goods vehicles. The handbook is available at the Association's divisional offices throughout the country.

### Austria Codex, 1954

*Oesterreichischer Apotheker Verlag*, Spitalgasse 31, Wien IX, Austria. 6 x 4 in. O.S. 98.

THE codex contains details of all medical specialities registered in Austria. In the first section, pharmaceutical specialities, sera, inoculation products, vaccines and foodstuffs are listed and according to their ingredients and their therapeutic uses. In the second thumb-indexed, alphabetical section, particulars of the preparations, including manufacturers, agents, formulas, packing, price, indications and methods of use are given. A list of manufacturers with particulars of specialities manufactured or distributed completes the work.

### BRITISH FINE CHEMICALS AND THEIR USES

## 28. HYDROGEN PEROXIDE

COMPARATIVELY few fine chemicals have undergone so great a widening of their industrial uses in recent years as hydrogen peroxide. While the original method of manufacture from the hydrate of barium peroxide is still to some extent persevered with, as the precipitated blanc fixe, obtained as a by-product, remains in appreciable demand, electrolytic methods have largely superseded that process. They give a purer product. The new processes depend mainly on the electrolytic production of ammonium persulphate, from which hydrogen peroxide is separated, or on the electrolytic oxidation of prepared sulphuric acid solutions. The peroxide is supplied in various concentrations (in terms of available oxygen). "Ten volumes" represents 3 per cent. hydrogen peroxide by weight. Apart from the pharmaceutical grade, several others are marketed including the purest for analysis, a stabilised quality for export, and a commercial quality for general industrial uses.

Hydrogen peroxide has several well-known medicinal applications. Its oxidising properties are taken advantage of for bleaching a large list of materials including textile fibres, hair, feathers, straw, ivory, fur, leather, glues, tobacco, oils, fats, waxes, wood and certain pulps used in paper manufacture. The peroxide is used for de-inking waste paper and developing vat dyes, in the manufacture of adhesives, for solubilising starch, and as a hypo eliminator in photography. In the chemical industry it is used in preparing both organic and inorganic peroxy compounds, as a polymerisation catalyst in plastics, in organic synthesis, and in gas analysis. It is employed as an anti-pitting agent in electro-plating, and in the analysis of the rare metals. Hydrogen peroxide has also been used in the manufacture of insecticides and fungicides, for veterinary purposes, for restoring old paintings and drawings, and in the manufacture of fragrant preparations in perfumery.

Applications in the laboratory are numerous. One of its distinctive uses is as a test for molybdic acid, with which it forms a permolybdate to produce a blood-red colour. Because of its aerating capacity, hydrogen peroxide is used both in the manufacture of light-weight concrete and for rubber productions. On the Continent, but not in the United Kingdom, it is used as a preservative for milk and foodstuffs. In recent years high-grade hydrogen peroxide has been developed as a source of power for certain aircraft. The commercial qualities can contain sulphuric, hydrochloric or phosphoric acids, and magnesia. Concentrated hydrogen peroxide prepared by freezing, etc., can explode violently under various conditions, though dilute solutions are harmless.

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The Beautiful boxes in full natural colour are a window or counter display in themselves, with their delightful flower design on the front, superb paintings of Windsor Castle on the underside.

# The new ROBERTS WINDSOR

TOILET SOAP

IS NATIONALLY ADVERTISED IN

Woman . Good Housekeeping . Everywoman . Housewife  
Modern Woman . Woman & Beauty . Vogue

#### THE CAMPAIGN STARTS NEXT MONTH

Will your stocks meet the demand?  
Don't risk running out—make sure  
you have enough today.

Any woman will pay 10d for soap of the  
highest quality—that is, for ROBERTS  
WINDSOR Toilet Soap—if you give her  
only the smallest encouragement. So why  
sell her a 6d tablet—and make less than  
half the profit Roberts Windsor gives you?

#### 6 Perfumes Distinguished by Colour of Wrapper:

Dianthus	Rose	Gorse
Fern	Lavender	Lilac

**SPECIAL TRIAL PARCEL**  
Roberts Windsor Toilet Soaps  
are sold as 10d toilet tablets  
and as 1/8d bath tablets. For a  
limited period we are offering a  
special Trial Parcel consisting of:  
• 1 doz. boxes (36 x 10d tablets)  
toilet soap.  
• ½ doz. boxes (18 x 1/8d tablets)  
bath soap.  
In Assorted Perfumes,  
at normal Trade terms less 5%  
cash discount and special 5% bonus

Established at Windsor Since the days of the Regency By Appointment Toilet Soap Manufacturers to His Late Majesty King George VI

ROBERTS WINDSOR SOAP CO. LTD., THE ACRE, WINDSOR, and VICTORIA SOAP WORKS, COLWICK, NOTTINGHAM

## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, FEBRUARY 23: Interest was again lacking in all markets during the week with negligible demand for CRUDE DRUGS. The present cold weather, however, is expected to cause extra demand for cough and cold preparations and that, in turn, should shortly have a salutary effect on the demand for raw materials.

ALOES remained short, with no shipment offers of Cape or Curaçao. The higher shipping freight rates from Canada and the United States which are to operate from April 1, will add about 6s. a cwt. to the price of CASCARA SAGRADA; with that in mind there has been some inquiry for 1954 peel for prompt shipment. BEESWAX is very short on the spot, only a small quantity of Mozambique being offered on the London market. Despite earlier announcements in India that licences would be issued for the export of RAUWOLFIA *Serpentina* none have so far been given; orders have been booked in India for dispatch as soon as the authorities lift the export restrictions. Meanwhile a parcel of *R. Canescens*, now afloat, is offered at 5s. 3d. per lb., ex warehouse. CANADA BALSAM is not offered from origin and spot prices have advanced 3s. 6d. per lb. There is virtually no IPECACUANHA on the spot and no offers for shipment. Alexandrian hand-picked SENNA PODS are available on the spot after a few months absence. The price asked is 7s. 6d. per lb. for a quality which when pods were last offered, would only have brought bids of about 5s. 6d. GINGER continues firm on the spot with no offers of new-crop from Africa or Jamaica.

A firm situation has developed in TARTRATES. Domestic CREAM OF TARTAR was advanced by 20s. per cwt. on February 21 and it is not unlikely that TARTARIC ACID will also be dearer shortly. There has not been the pressure from the Continent to sell either of those commodities lately, since Russia has entered the consumer market and the prices of argols from which the acid and cream of tartar are made are very firm. There were no other price changes advised by the manufacturers of PHARMACEUTICAL and FINE CHEMICALS.

In the ESSENTIAL OILS market,

Sicilian LEMON was easier but Californian for shipment (which did not follow the Sicilian rise earlier) has been advanced 50 cents per lb. at origin making the c.i.f. price about 3s. 6d. higher than previous quotations.

### Pharmaceutical Chemicals

**AMIDOL.**—Quotations for 1-cwt. lots are 17s. per lb.; 14-lb., 19s. per lb.

**AMIDOPYRIN.**—Price per lb. is from 23s. 6d. to 25s. as to quantity.

**AMPHETAMINE.**—Prices (per kilo) for 25-kilo lots are as follows:—BASE, 160s.; SULPHATE, 130s.; *d*-Amphetamine, 550s.

**AMYLOBARBITONE.**—B.P.C. is 65s. per lb. for 1-cwt. lots and SODIUM, B.P.C., 70s. per lb.

**ANTIMONY SALTS.**—Quotations for POTASSIUM TARTRATE, B.P., are 7s. 6d. per lb. for 1-10 cwt. and SODIUM TARTRATE, B.P., 13s. 3d.

**ATROPINE.**—Rates (per oz.) for 16-oz. lots are: ALKALOID, 30s. 9d.; SULPHATE, 25s. 9d.; METHYLBROMIDE, 31s. 9d.; METHYLNITRATE, 36s. 9d. The price for 1-oz. lots is 6d. per oz. more than the 16-oz. lots.

**BENZOIC ACID.**—1-cwt. lots are 2s. 11½d. per lb. The SODIUM SALT is 2s. 9½d. per lb. in 1-cwt. lots.

**BISMUTH SALTS.**—The following are the prices (per lb.) in largest bulk packages:—

	1-cwt.	28-lb.		7-lb.
		s.	d.	
CARBONATE ...	23 5	23	8	27 5
SALICYLATE ...	22 6	22	9	26 4
SUBGALLATE ...	21 8	21	11	25 6
SUBNITRATE ...	20 11	21	2	24 4

2-cwt. lots are 3d. per lb. less than the 1-cwt. rates. The present 1-cwt. rates for other salts are:—CITRATE, B.P.C., 22s. 8d.; NITRATE, crystal, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d. and TRIBROMPHENATE, B.P.C., 26s. 9d.

**BROMIDES.**—Potassium B.P. crystals in 5-cwt. lots are 2s. 10½d. per lb.; 1-cwt., 2s. 11½d. per lb. Powder is 1½d. per lb. more. AMMONIUM is 3s. per lb. in 5-cwt. lots and SODIUM, 2s. 9½d. per lb.

**CAFFEINE.**—For 1-cwt. lots, ALKAVID, B.P. is 26s. 6d. per lb.; ANHYDROUS ALKAVID, 27s. 6d.; and CITRATE, 16s. 3d.

**CALAMINE.**—1-cwt. lots are 1s. 7d. per lb.; 10-cwt., 1s. 5½d.

**CALCIUM CARBONATE.**—B.P. powder is £25 per ton, ex store.

**CALCIUM GLUCONATE.**—Quantities of 3-cwt. and upwards are quoted at 4s. per lb.; 1-cwt. to 2-cwt., 4s. 1d.; smaller quantities, up to 4s. 4d. per lb.

**CALCIUM PANTOTHENATE.**—Price per kilo is £32 10s.

**CARBROMAL.**—B.P.C. is 21s. per lb. delivered in returnable packing.

**CARMINE.**—1-cwt. lots are about 130s. per lb., nominal.

**CHLORAL HYDRATE.**—In 1-cwt. lots the price is from 3s. 10d. per lb. as to holder.

**CHLOROBUTOL.**—28-lb. lots are at the rate of 10s. per lb.

**CHLOROCRESOL.**—Pharmaceutical quality is quoted at 6s. 7d. per lb. for 1-cwt. lots.

**CHLOROFORM.**—1-cwt. lots in winchesters are 3s. 6d. per lb.; 56-lb., 3s. 6½d. In drums, prices are 3s. 4d. and 3s. 4½d.

**CHLOROXYLENOL.**—B.P. quality is lower at 5s. 9d. per lb. for 1-cwt. lots, and 5s. 7d. for 10-cwt.

**CINCHOPHEN.**—1-cwt. lots are quoted at 21s. per lb.

**CITRIC ACID.**—Quotations (per cwt.) for domestic material are 205s. for 1-4 cwt. lots and 200s. for 5-cwt. lots.

**CREAM OF TARTAR.**—Rates for the home trade are now as follows:—1-ton lots, 211s. per cwt.; 10-cwt., 212s.; 5-9-cwt., 213s.; 2-4-cwt., 214s.; 1-cwt., 215s.

**CREOSOTE.**—B.P. quality ex beechwood, is quoted at from 6s. 9d. to 7s. 6d. per lb.

**CRESOL.**—Price of B.P. quality from distillers is 7s. 9d. per gall. in 5-gall. lots.

**CYCLOBARBITONE.**—B.P.C. and CALCIUM DERIVATIVES in 1-cwt. lots are 65s. per lb.

**DICOPHANE (DDT).**—Prices are as follows:—1-cwt. lots, 3s. 1d. per lb.; 1-ton, 2s. 10d. Discount for larger quantities.

**DIPHENAN.**—Prices range from 58s. to 67s. per lb., according to quantity.

**ERGOTOXINE ETHANESULPHONATE.**—Price per gm. for B.P.C. (1949) is 1 gm., 125s.; 10 gm., 115s.

**FORMALDEHYDE.**—B.P. solution is 37s. 3d. per cwt. for 4-cwt. lots including free drums.

**GLYCEROPHOSPHATES.**—Rates per lb. for 1-cwt. lots are as follows:—ACID, B.P.C., 20 per cent., 5s. 9d.; CALCIUM, soluble, B.P.C., 11s. 9d.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble B.P.C., 14s. 3d., and insoluble, 7s. 6d.; MANGANESE, B.P.C., 26s. 3d.; POTASSIUM, 50 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., B.P.C., 3s. 1d. and 75 per cent., B.P.C., 4s. 6d.

**HYDROQUINONE.**—Quotations for 1-cwt. lots are 10s. 6d. per lb. For smaller quantities, viz., 28-lb., 10s. 9d.; 14-lb., 11s. 6d.; 7-lb., 12s.

**LACTOSE.**—English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £137 per ton, delivered in the United Kingdom.

**MAGNESIUM HYDROXIDE.**—Makers' prices for B.P.C. are: 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

**MENAPHTHONE.**—B.P. is £16 per kilo; ACETOMENAPHTHONE, B.P., £16; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.) £19 10s. per kilo.

**POTASSIUM BICARBONATE.**—B.P. powder is 110s. per cwt. for 1-4-cwt. lots and 105s. per cwt. for 5-cwt. and over.

**POTASSIUM NITRATE.**—Pharmacopoeial quality is 145s. per cwt. (crystal, granular or powder) and commercial, 90s.

**THEOBROMINE.**—ALKALOID is 40s. 6d. per lb. and the SODIUM SALICYLATE, 24s. 3d. for 1-cwt. lots.

### Crude Drugs

**ACONITE.**—Spot supplies of Spanish *napellus* are 4s. per lb., duty paid.

**ALOES.**—Prime Cape is quoted at 275s. per cwt., on the spot. No offers for shipment.

**ANISEED (STAR).**—Chinese is 165s. per cwt., in bond.

**ANTIMONY.**—English 99·6 per cent. £222 l.0s.; 99 per cent., £210 per ton.

**ARECA NUTS.**—Quotations are about 40s. per cwt. for Ceylon material on the spot. Shipment, 25s., c.i.f.

EXCHANGE RATES ON LONDON		
At the opening on Wednesday		
*Alexandria . . . . .	Piastras to £	97½-97½
Amsterdam . . . . .	Florins to £	10·56-10·72
*Bombay . . . . .	Shillings to rupee	1·51½-1·61½
Brussels . . . . .	Francs to £	138·95-141·05
Copenhagen . . . . .	Kronos to £	19·19-19·48½
Dutch West Indies . . . . .	Shillings to £	5·24-5·32
Hong Kong . . . . .	Shillings to \$	1·23½-1·23½
*Karachi . . . . .	Shillings to rupee	2·14½-2·14½
Lisbon . . . . .	Escudos to £	79·90-81·10
*Montreal . . . . .	Dollars to £	2·72-2·73
New York . . . . .	Dollars to £	2·78-2·82
Oslo . . . . .	Kronos to £	19·85-20·15
Paris . . . . .	Francs to £	972·6-987·3
Stockholm . . . . .	Kronor to £	14·37½-14·59½
*Singapore . . . . .	Shillings to \$	2·4/4½-2·4/4½
Zurich . . . . .	Francs to £	12·15½-12·33½

\*Free market rates; remainder Bank of England. Bank rate increased to 3½ per cent. on January 27.

**BALSAMS.**—Quotations (per lb.) are:—  
Canada: spot dearer at 23s. 6d.; no offers for shipment. *Copaiba*, B.P., 11s. 6d. Peru is 12s. 6d., duty paid; forward delivery, 11s. 3d., c.i.f. *Tolu* (genuine as imported), 26s. 6d. spot, and 26s., c.i.f.

**BELLADONNA.**—Root testing 0·42 per cent. is offered at 2s. per lb. and LEAVES testing 0·514 per cent., at 3s. 6d.

**BENZOIN.**—Sumatra block on the spot is from £27 10s. to £32 per cwt.

**BISMUTH METAL.**—Minimum rate is 16s. per lb.

**BUCHU.**—New-crop offers for March shipment are 3s. 9d., c.i.f.

**CAMPHOR.**—B.P. POWDER is 8s. 3d. per lb., duty paid. Offers for shipment are at 6s. 9d. per lb., c.i.f. TABLETS, 4-oz. are 7s. 2d., in bond.

**CINNAMON.**—Ceylon for shipment (c.i.f.) per lb.; OOOO, 8s. 9½d.; OOO, 8s. 8½d.; OO, 8s. 7½d.; O, 8s. 6d.; firsts, 4s.; quillings, 2s. 5½d.; chips, 7d.

**CLOVES.**—Zanzibar on the spot are now quoted at 3s. 8d. per lb., prompt shipment, 3s. 4d., c.i.f.

**COCILLANA.**—Value of bark is 3s. per lb. landed, duty paid.

**COLCHICUM.**—Corms on spot are offering at 2s. 3d. per lb., and seeds, 6s.

**ERGOT.**—For shipment Portuguese is 15s. per lb., c.i.f., and Polish, 7s. 6d., c.i.f. Spot, Portuguese is 16s. 9d.; Hungarian 9s. to 11s., as to test.

**GINGER.**—Firm. African is quoted on the spot at 230s. per cwt. Jamaican No. 3 is 310s. (sellers) on the spot. No forward offers.

**GUM ACACIA.**—Kordofan cleaned sorts on the spot are quoted at 150s. per cwt.; February-March shipment (new crop), 133s., c.i.f.; afloat, 140s.

**HONEY.**—Firm. Australian light-amber is offered on the spot at from 102s. 6d. to 110s. 6d. per cwt. and medium-amber, 97s. 6d. to 102s. 6d. Jamaican is from 125s. to 135s. Argentine stocks are cleared.

**HYDRASTIS.**—Root is 17s. 6d. per lb., on the spot.

**IPECACUANHA.**—Nicaraguan, high testing is 75s. per lb. on the spot. No offers from origin.

**KARAYA.**—No. 1 gum on the spot is quoted at 325s. per cwt., and No. 2 at 210s.

**KOLA NUTS.**—African halves are short on the spot at about 6d. per lb.

**LIQUORICE.**—Stocks of natural whole root are short on the spot. Quotations (nominal): Anatolian at 70s. per cwt.; Russian, 65s.; Persian, 55s. Block juice quotations are 220s. per cwt. on the spot. Italian stick from 310s. to 475s. per cwt., duty paid.

**MACE.**—West Indian pale blade is 9s. 6d. per lb.; shipment, 8s. 10d., c.i.f.

**MENTHOL.**—Chinese is 60s. per lb., duty paid, also in bond and c.i.f. Brazilian afloat, 53s., c.i.f., and spot, 56s. 6d., duty paid.

**MERCURY.**—Nominal spot value is £108 10s. to £110 per flask of 76-lb. ex-warehouse.

**MYRRH.**—Aden selected sorts are about £14 10s. per cwt. on the spot. Siftings are from £7.

**NUTMEGS.**—West Indian 80's quoted at 3s. per lb. on the spot and 2s. 9d., c.i.f., for shipment.

**PAPAIN.**—Spot value for East African-grade one is from 17s. 6d. to 18s. per lb.

**PEPPER.**—Quieter. White Sarawak on spot quoted at 4s. 4d. per lb.; afloat parcels are 4s. 3d. to 4s. 3½d., c.i.f. Black Sarawak is 3s. 2d., spot; afloat, 2s. 11d. to 3s. c.i.f. Black Malabar is again lower at 400s. per cwt. on the spot with February shipment at 345s., c.i.f.

**RAUWOLFIA.**—*Canescens* is 5s. 3d. per lb., ex warehouse. *Serpentina* 15s., nominal.

**RHUBARB.**—Chinese is scarce on the spot with offers ranging between 7s. 3d. and 9s. 3d. per lb. as to quality. No offers for shipment.

**SAFFRON.**—Mancha superior is at about 175s. per lb.

**SARSAPARILLA.**—Jamaican native red on the spot is now offered at 3s. 10d. per lb. For shipment the price is 3s. 6d., c.i.f.

**SASSAFRAS BARK.**—Selected is 6s. 3d. and natural, 4s. 3d. per lb. landed terms.

**SEEDS.**—(Per cwt.). **ANISE.**—No supplies available. Nominal quotation for Cyprian or Bulgarian about 285s., spot. **CARAWAY.**—Dutch old-crop are firm at 175s. spot, duty paid. Present crop sold at 170s. spot, duty paid. **CELERY.**—Indian now quoted at 155s., spot. **CORIANDER.**—Unchanged. Spot, Morocco is 80s., duty paid (72s. 6d. in bond); Danubian or Rumanian, 65s., duty paid. Shipment, Morocco is 58s., c.i.f. **CUMIN.**—Small business reported. Spot, Cyprian, 125s.; Morocco, 127s. 6d., duty paid. Shipments are inclined to be firmer with quotations of 109s. for Cyprian and 110s. for Morocco. **DILL.**—Indian is quiet with sellers offering at 92s. 6d., spot. **FENNEL.**—Quiet. Indian is 95s. and Chinese, 92s. 6d., duty paid. **FENUGREEK.**—Firm. Spot, 57s. 6d., duty paid. Quotations for shipment vary from 49s. to 50s., c.i.f. **MUSTARD.**—English, 72s. 6d. to 87s. 6d., according to quality.

**SENNA.**—*Tinnevelly* LEAVES (per lb.), prime No. 1, 1s. 1d.; No. 2 (dry crop), 9½d.; prime No. 3, 8d.; f.a.q., No. 3, 7d.; pods, f.a.q., 7½d.; hand-picked, from 1s. 6½d. to 2s. 10d. as to quality, all on the spot. *Alexandrian* manufacturing pods, 2s. spot; hand-picked, 7s. 6d.

**TURMERIC.**—Rajapore is now offering at 210s. per cwt. on the spot. New-crop Madras finger for April-May shipment is offered at 110s., c.i.f.

**WAXES.**—**BEES'**—Mozambique, spot, 535s. per cwt., duty paid; Dar-es-Salaam, spot cleared; shipment, 535s., c.i.f.; Sudanese and Abyssinian spot, 520s., nominal and 465s., c.i.f. **CANDELILLA.**—Spot is 570s. per cwt. Forward, 570s., c.i.f. **CARNAUBA.**—Prime yellow on the spot is 850s. per cwt., shipment, 810s., c.i.f.; fatty grey is 550s. on the spot; shipment, 520s., c.i.f. **MONTAN.**—Rebeck, crude, 115s. per cwt., spot. **SPERMACETI.**—Case lots are about 2s. per lb.

**Essential and Expressed Oils**

**ALMOND.**—B.P. is from 6s. 6d. to 7s. 6d. per lb., as to quantity.

**AMBER.**—Rectified on the spot is quoted at from 1s. 6d. per lb.

**BOIS DE ROSE.**—Brazilian on the spot is 36s. per lb. and 31s. 6d., c.i.f., April-May shipment.

**CADE.**—Spanish is about 2s. 3d. per lb. on the spot for 1-cwt. lots.

**CAJUPUT.**—Spot supplies are 15s. 6d. per lb. for 1-cwt. lots.

**CALAMUS.**—Imported oils are offering from 70s. per lb.

**CAMPHOR, WHITE.**—Chinese is 2s. 9d. per lb., duty paid.

**CARAWAY.**—English-distilled is offered at 47s. 6d. and imported oil at 30s. 6d. per lb.

**CASTOR.**—In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £121 per ton, naked ex mill. For forward delivery the price is £116.

**CEDARWOOD.**—Scarce. Small lots on offer at 10s. 6d. per lb.

**CINNAMON.**—From quillings, English distilled is quoted at 30s. per oz. Other B.P. oils available down to 90s. per lb. Ceylon leaf, 13s. per lb., spot.

**CUBEBS.**—English distilled is 50s. per lb and imported, 47s. 6d.

**CUMIN.**—Quotations for English-distilled oil are about 77s. 6d. per lb. and imported, 57s. 6d.

**EUCALYPTUS.**—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 3d. per lb., and 80 to 85 per cent., 5s. 6d. Spanish, 70 to 75 per cent., 4s. 11d., duty paid.

**FENNEL.**—Spanish sweet on the spot is quoted from 9s. 6d. per lb.

**GARLIC.**—English is 55s. per oz. **HYDNOCARPUS.**—Spot is offered at 2s. 2d. per lb.

**JUNIPER BERRY.**—Imported oils are offered from 16s. per lb., duty paid. English-distilled is now 155s.

**LAVANDIN.**—Spot is 18s. 3d. per lb. nominal.

**LEMON.**—B.P. (4 per cent. citral) on the spot is 38s. to 40s. per lb. Sicilian hand pressed, 45s. to 47s. 6d., spot. Californian, 28s. 6d. to 43s. 7½d., c.i.f., as to quality, subject to licence.

**LIME.**—Supplies of West Indian distilled are offered from 37s. 6d. to 40s. per lb. on the spot.

**NUTMEG.**—English-distilled oil is 37s. 6d. per lb. Imported oil is offered at 26s. per lb., duty paid for drum lots.

**PATCHOULI.**—Penang is 59s. per lb. duty paid and 53s., c.i.f.

**PENNYROYAL.**—Spot value is from 17s. to 18s. per lb., duty paid.

**PEPPERMINT.**—*Arvensis*: Chinese is 44s. 6d. spot and 44s., c.i.f. Brazilian, 35s. and 32s., c.i.f. Italian "Mitcham" type oil is from 72s. 6d. to 80s., spot, and American 60s. to 65s.

**PETITGRAIN.**—Paraguay is quoted for shipment at 27s. per lb., c.i.f., and 30s., spot.

**PIMENTO.**—English-distilled berry is 165s. per lb. with imported at 67s. 6d. Rectified leaf (imported), 27s. 6d. per lb.

**ROSEMARY.**—Spanish oil on the spot is from 5s. 3d. to 5s. 9d. per lb., duty paid, as to quality.

**RUE.**—Spot offers are from 14s. per lb.

**SPEARMINT.**—Offers of U.S.P. quality vary between 33s. 6d. and 38s. per lb. on the spot. Dutch quoted at 32s. 6d., duty paid.

**TANGERINE.**—Good quality is scarce on the spot at 48s. per lb.

**THYME.**—B.P.C. is about 9s. 6d. per lb.

**TITREE.**—Small lots are offered at 13s. 6d. per lb.

**VETIVERT.**—Bourbon in original drums on the spot is 90s. per lb.

## UNITED STATES REPORT

NEW YORK, FEBRUARY 21: United States exports of chemicals and related products in 1954 amounted to approximately \$1,003 millions while imports totalled \$249·8 millions. This was the first year that chemical export shipments had surpassed \$1,000 millions. With supplies adequate for consumer needs, crystalline CALCIFEROL was reduced to 60 cents per gm., down 15 cents. The spot market in CRUDE DRUGS was about unchanged. Lower per lb. were QUINCE SEED at \$1·50 (down 25 cents), and Asiatic STYRAX at 80 cents (10 cents). TERPINEOL was higher at 40 cents per lb. (up five cents). Higher among ESSENTIAL OILS were BAY at \$2·00 per lb. (up 25 cents); Californian LEMON, \$4·75 (20 cents); and Californian ORANGE, 65 cents (five cents). Lower per lb. were CORIANDER at \$14·00 (down 50 cents), and Ceylon CITRONELLA, \$1·10 (15 cents).

## WORLD TRADE

**Danish Tariff Changes Proposed.**—A bill to abolish the current import tariff of 350 ore per kilo on essential oils and certain alkyl salts is at present under consideration by the Danish Lower House.

**Austrian Pharmacy Reconstruction.**—A fund for reconstruction of pharmacies in Austria has wound up its operations after allocating 2·22 million schillings for reconstruction purposes since July 1, 1947. The fund has helped to reconstruct 120 pharmacies, one-sixth of all pharmacies in Austria, which were either damaged or completely destroyed during the 1939-45 war.

**Hungary's First Electron-Diffractograph.**—Hungary has made its first electron-diffractograph for industrial atomic research. Dr. Ferenc Guba, director of the electron-microscope laboratory of the Academy of Sciences, said the apparatus would substantially improve the work of the catalysts and enable the laboratory to give great help to the organic chemical industry, the drug industry and the basic materials manufacturing industry.

**Pharmaceutical Plant for Chile.**—A Chilean firm, Laboratorio Chile, is to build a 200 million-peso plant for the production of aureomycin, tetracycline and their derivatives. The plant, which is expected to go into production within a year to eighteen months, will be the first of its type in South America. It is estimated that when it is completed, it will be able to export a considerable amount of its output to the countries along the Pacific coast of South America.

**Indian Import Duty Change.**—Accepting the recommendations of the Tariff Commission on protection to the caustic soda and bleaching powder industries, the Indian Ministry of Commerce and Industry announces that the existing preferential duty of 27·3 per cent. *ad valorem* on caustic soda of U.K. origin will be converted into a protective duty, the standard rate of duty being fixed in accordance with the relevant trade agreements, and that a protective duty of 15 per cent. *ad valorem* will be levied on bleaching powder and bleaching paste. The protective duties will be in force up to the end of 1958.

**U.S. Move Towards Lower Tariffs.**—The United States House Ways and Means Committee has voted 20-5 to approve President Eisenhower's programme for expanding world trade by lowering U.S. tariffs and rejected a long series of amendments offered by republicans seeking more protection for American industries against competing foreign imports. The Committee rejected one tariff reducing proposal which would have given the President power to cut duties, without compensating concessions from other countries, on foreign goods not now coming to the U.S. in appreciable volume. The Committee left in the Bill a section giving the President power to make sharp tariff reductions on some low import items so long as they were included in trade agreements, under which foreign countries would

have to extend similar trade concessions to American products sold abroad.

**Italian Pharmaceutical Patents.**—At the request of foreign firms the Italian Ministry of Industry and Commerce recently decided to grant several hundred patents for processes for the manufacture of medicinals. The decision has been opposed by Italian pharmaceutical manufacturers who have approached the authorities asking for the immediate suspension of the issue of such patents. The local manufacturers stated that the Ministry's decision "under pressure from representatives of foreign industry" was contrary to centuries-old practice under which no patents were granted for medicines, on humanitarian principles, especially as a decision of the Appeal Court in this field was pending. Well-informed sources believe that the patents granted for certain processes in the manufacture of medicinals are unlikely to be revoked, despite the protests. It is pointed out that the patents were granted by administrative acts—acts which can only be revoked by a judgment of the Court of Appeal suspending their effectiveness in the future. But the Court is not expected to make any such judgment for at least five or six months. Therefore, if the authorities wished to take any action as a result of these protests, the most they could do would be to suspend the granting of any further patents by the Ministry of Industry and Commerce. They could not revoke those already granted. The whole question is causing much concern in Italy's pharmaceutical industry, which since 1859 has done business on the basis of the principle that no patents could be granted for medicines.

## ZANZIBAR CLOVES

THE market review of the Zanzibar Clove Growers Association, for the last quarter of 1954 (the second quarter of the seasonal year 1954-55) states that the crop estimate of 351,500 frasilas remains unchanged. During the quarter a total of 5,419,145 lb. (154,833 frasilas) arrived in the Central Market bringing the total for the half-year to 8,625,885 lb. (246,454 frasilas) of which 7,073,718 lb. was the produce of Pemba. The average price for the half-seasonal year was Shs. 241.37 per 100 lb., ex duty.

The following table shows the principal destinations and quantities actually shipped during the quarter:

Destinations	lb.	%
Indonesia ... ...	6,944,000	48·38
India ... ...	3,173,713	22·11
United States of America	1,690,780	11·78
United Kingdom ...	787,045	5·48
Europe ... ...	564,706	3·94

During the quarter the Association's buying prices for clove stems remained unchanged at Shs. 17·50 per 100 lb. for commercial quality. Arrivals of stems at the Association's depots during the quarter totalled 1,923,191 lb. Exports of clove stem oil totalled 71,760 lb. during the quarter as follows:—To United Kingdom, 64,980 lb.; United States, 5,340 lb.; Canada, 960 lb.; East Africa, 480 lb.

## TRADE MARKS

### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," February 9

For synthetic resins (1)

FORTREZ, 737,330, by Semtex, Ltd., London, N.W.1.

For preparations for waving the hair (3)

MALVIN, 723,336, by Ernest Mallet & Bernard Henry Vine, London, N.W.1.

For non-medicated toilet preparations (3)

VIF, 734,749, by Coty (England), Ltd., London, W.1. AEROGE, 735,220, by Robert James Foy Campbell, London, S.E.15. TUR-GOSMON CREAM No. 1001, 735,390, by Helena Rubinstein, Ltd., London, W.1. ROSSWAY, 737,029, by Rushtons (Wholesale), Ltd., Southport, Lancs.

For medicated lotions containing silicone compounds for use in the treatment of the skin (5)

SILICARE, B729,335, by Revlon Products Corporation, New York, U.S.A.

For insecticides (5)

STOPASTIK, 733,935, by Insecta Laboratories, Ltd., London, S.W.1.

For all goods (5)

VERMOREL, B734,270, by Phillips & Pain-Vermorel, Seine, France. BAYWOOD, 735,452, by Baywood Chemicals, Ltd., London, W.C.2. BARBESIN, 737,613, DEQUADIN, TEO-QUIL, 737,615-6, by Allen & Hanburys, Ltd., London, E.2. SUPANTRIN, 737,619, by Ward, Blenkinsop & Co., Ltd., London, W.1.

For pharmaceutical preparations and substances (5)

AEROGE, 734,661, by Robert James Foy Campbell, London, S.E.15. PESOMIN, 735,348, by Galactina & Biomaltz, Belp, Switzerland. REDACTIN B, 736,246, by S. C. Bentley (Chemists), Ltd., Pinner, Middlesex.

For liquid preparations for repelling mice (5)

HOPPUTT, 735,027, by Clenge Products, Ltd., London, S.W.1.

For germicides for veterinary use (5)

TAG, B735,191, by B. C. Tipper & Son, Ltd., Birmingham.

For pharmaceutical preparations and substances for human use and for veterinary use (5)

ADELPHANE, 736,150, by Ciba, Ltd., Basle, Switzerland.

For laxative preparations containing extracts or derivatives of milk (5)

LACTOLAXINE, 736,197, by Perivale Laboratories, Ltd., Greenford, Middlesex.

For bandages, material prepared for bandaging, medical and surgical plasters and surgical dressings all incorporating strips of foamed rubber (5)

ELASTOFOAM, 736,688, by T. J. Smith & Nephew, Ltd., Hull, Yorks.

For razor blades (8)

ASTAG, 733,550, by Astag Products, Blackpool, Lancs.

For lamps for surgical and curative purposes (10)

DELARAY, B736,691, by Delawarr Laboratories, Oxford.

For hypodermic syringes (10)

MEITIP, 737,533, by L. R. Wilson (Instruments), Ltd., Salford, Lancs.

From the "Trade Marks Journal," February 16

For chemical preparations for industrial, scientific and photographic purposes (1)

PLASTACELLA, 733,951, by J. H. Benecke, Hannover-Vinnhorst, Germany.

For chemical products (1)

ETHOMEEN, ETHOMID, 735,706-7, by Armour & Co., Illinois, U.S.A.

For chemical preparations for use in the manufacture of varnishes and drying oils (1)

HEYDRILIN, 735,789, by Harold Heydon & Co., Ltd., London, E.15.

For waterproofing compounds (1)

KANVO, 737,544, by David S. Weston & Co., Glasgow.

For pharmaceutical, veterinary and sanitary substances and disinfectants, all containing amino compounds (5)

PROCAMIN, 730,552, by Farmaceutici Italia, S.p.A., Milan, Italy.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

### Sunday, February 27

LONDON PHARMACY RAMBLERS, eleven-mile walk to St. Martha's Hill and the Silent Pool. Meet at Shalford, Surrey, at 11.10 a.m. Train from Victoria, 9.50 a.m., Clapham Junction, 9.55 a.m., East Croydon, 10.8 a.m.

### Tuesday, March 1

GLASGOW PHARMACY CLUB, Reid's tea-room, 34 Gordon Street, Glasgow, at 7.30 p.m. Whist drive. Ticket 5s, from Mr. R. Anderson, 8 Main Street, Milngavie, Glasgow.

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION and SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, New Cross Inn, 322 New Cross Road, London, S.E.14, at 8 p.m. Films on "Aureomycin," "Varidase" and "Folvite Folic Acid" shown by Mr. N. P. F. Pearce (Lederle Laboratories Division, Cyanamid Products, Ltd.).

IDEAL HOME EXHIBITION, Olympia, London, W.14. Open until March 26 (10 a.m. to 10 p.m.).

### Wednesday, March 2

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Assembly House, Theatre Street, Norwich, at 7.30 p.m. Pharmaceutical night. Mr. C. C. Stevens, LL.B., M.P.S. (Imperial Chemical Pharmaceuticals, Ltd.), on "The Pharmacist and Common Law."

READING BRANCH, PHARMACEUTICAL SOCIETY, Great Western Hotel, Reading, at 7.45 p.m. Annual dinner and dance, Ticket 25s, from the secretary, 105 Wokingham Road, Reading.

WESTERN [LONDON] PHARMACISTS' ASSOCIATION, Bonnington Hotel, Southampton Row, London, W.C.1, at 7.15 p.m. Mr. H. S. Grainger (chief pharmacist, Westminster Hospital, London, S.W.1) on "Some Reflections on Pharmacy—After a year on the Society's Council."

### Thursday, March 3

EPSOM AND SUTTON BRANCH, PHARMACEUTICAL SOCIETY, Adult School and Institute, Benhill Avenue, Sutton, at 7.45 p.m. Film show by

Mr. S. E. Cook, including colour film "A Holiday Tour in North Italy and Austria."

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Metropole Hotel, Leeds, at 7.30 p.m. Mr. I. Macdonald (field manager, H. C. Neilson Co., Ltd.) on "Pharmacy—Business and Profession."

MANCHESTER PHARMACEUTICAL ASSOCIATION and BRANCH, PHARMACEUTICAL SOCIETY, council chamber, Houldsworth Hall, Manchester, at 7.45 p.m. Meeting. Address by Mr. H. Noble (secretary, National Pharmaceutical Union).

WEST HAM ASSOCIATION OF PHARMACISTS, Trocadero restaurant, Piccadilly Circus, London, W.1, at 6 for 6.30 p.m. Annual dinner and dance. Ticket 35s, from the secretary, Mr. W. H. Cloud, 45 Longbridge Road, Barking, Essex.

### Friday, March 4

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Assembly Rooms, South Street, Exeter, at 7.30 p.m. Film display "Burma Pharmaceutical Industry," by Dr. D. Riding (Evans Biological Institute).

HULL CHEMISTS' ASSOCIATION and BRANCH, Assembly Room, Young Peoples' Institute, George Street, Hull, at 8 p.m. "Come Back to Erin." Colour film and slides shown by Mr. A. F. Park (Kodak, Ltd.).

LEICESTER SCHOOL OF PHARMACY, Grand Hotel, Leicester, at 7 p.m. Annual reunion. Ticket 21s, from the reunion secretary, School of Pharmacy, Leicester College of Technology and Commerce, Leicester.

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Y.W.C.A. lounge, Slaters Street, Liverpool, at 7.15 for 7.45 p.m. Films shown by a representative of Pfizer, Ltd.

SOCIETY FOR ANALYTICAL CHEMISTRY, Royal Society, Burlington House, London, W.1, at 2.45 p.m. Annual meeting. At 3.15 p.m., address by Dr. D. W. Kent-Jones (retiring president). At Fishmongers' Hall, London Bridge, London, E.C.4, at 7.15 for 7.45 p.m. Biennial dinner.

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Lambeth Town Hall, Brixton Hill, London, S.W.2, at 8 p.m. Mr. J. C. Hanbury (chairman, Allen & Hanburys, Ltd.) on "The Use of Fine Chemicals in Pharmacy, 1700-1900."

## C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; \* = Tax 25 per cent.; † = Tax 75 per cent.

THE ARMOUR LABORATORIES (ARMOUR & CO., LTD.) (from February 21)

Bipar tablets	30	10	0	R
	60	19	0	R
	500	152	0	R

WILLIAM FREEMAN & CO., LTD. (from March 1)

Hot-water bottles:—	Each			
Standard with/without handle	5 0	7	6	A
Large nursery rhyme	5 0	7	6	A
Giant	7 8	11	6	A
Streamline	6 4	9	6	A
Cot	3 0	4	6	A
Suba comet	5 8	8	6	A
Bear cub	5 0	7	6	A
Dog Toby	5 0	7	6	A
Doll	5 0	7	6	A
Suba-maid with handle	4 4	6	6	A
Pennant, standard size with handle	5 0	7	6	A
Sleepyhead	3 11½	5	3	A

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD. (from February 21)

Theogardenal tablets	25	2	3	A
	100	7	6	A
	500	32	6	A

### NEW PRODUCTS AND PACKS

ASSOCIATED BRITISH-PATHÉ, LTD. (distributors)

Pakolor outfit No. 1	67	9
	3	6

BURLEON, LTD. Tétu perfume†  $\frac{1}{2}$  oz.

	21	0
	3	6

E. K. COLE, LTD. Plastabath infants' bath with stand

	39	6
	59	6
	7	6

INNOXA (ENGLAND), LTD.

Late Night Final†	2 oz.	4	6
	4 oz.	6	9

KEEN, ROBINSON & CO., LTD.

Robinson's baby rice	6 oz.	13	10
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		1	6
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M. & R. NORTON, LTD. Neutrogena soap\*

	31	0	4	6
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STEINER PRODUCTS, LTD. Lacquer Sheen aerosol hair spray†

		11	9
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VACCO, LTD. Vacco tea flask (new design)

		7	6
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WESTBROOK LANOLIN CO., LTD. Skin Sheen body lotion†

		5	11
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P.A.T.A. PROTECTED LIST

(Prices notified this week by the Proprietary Articles Trade Association.)

ADDITIONS

COOPER, McDougall & ROBERTSON, LTD.

Moth-aire	49	6	5	6
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	85	6	9	6
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J. G. INGRAM & SON, LTD. Spiral band valve teat

	57	6	7	½
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MACLEANS, LTD. Macprin\*

	18	13	4	1	9
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	36	22	9	3	0
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MOORE MEDICINAL PRODUCTS, LTD. Strix asthma inhalant

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## PRINT AND PUBLICITY

### Advertising Campaigns

DOMESTOS, LTD., Newcastle-upon-Tyne, 6: Domestos, Puppet films. Also Press, poster and point of sale advertising.

JEAN SORELLE, LTD., London, N.4: Sorella foam bath. In women's magazines with combined circulation of over 40 millions.

POND'S EXTRACT CO., LTD., Wadsworth Road, Perivale, Middlesex: Pond's cold cream, Half-page in *Daily Express* on February 26.

THERMOS (1925), LTD., Seymour Road, Leyton, London, E.10: Thermos vacuum flasks. New advertising in mass-circulation publications during the summer.

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD., Wilmslow, Manchester: Savlon antiseptic cream, In national daily and Sunday Press, provincial newspapers, women's magazines, *Woman's Sunday Mirror*, *John Bull* and on Radio Luxembourg, weekly.

### Catalogue

HILGER & WATTS, LTD., 98 St. Pancras Way, London, N.W.1: "Inspection Enlargers." Pp. 12. "Polarimeters." Pp. 12. "Production Projectors." Pp. 12.

### Periodicals

ASSOCIATED ENTERPRISES, LTD., Unilever House, Blackfriars, London, E.C.4: *Progress*, Vol. 44, No. 245. Winter 1954-55. Pp. 48. Price 2s, 6d.

BRITISH RUBBER DEVELOPMENT BOARD, Market Buildings, Mark Lane, London, E.C.3: *Rubber Developments*. Vol. 7, No. 4, Winter 1954. Pp. 34.

W. EDWARDS & CO. (LONDON), LTD., Crawley, Sussex: *Vacuum*, Vol. III, No. 2, April 1953 (Published December 1954). Pp. 116.

G. B. FILM LIBRARY, Aintree Road, Perivale, Middlesex: *Film News*, Bulletin No. 20, October-November 1954.

HILGER & WATTS, LTD., 98 St. Pancras Way, Camden Road, London, N.W.1: *Hilger Journal*, No. 1. November 1954. Pp. 8.

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: *The Roche Courier*, Vol. XXI. No. 1, 1955. Pp. 4.

STYRENE CO-POLYMERS, LTD., 1 Roebuck Lane, Sale, Manchester: *Scop*, Vol. 1, No. 5. Pp. 8.

Orders value £7 10s. which may include all products (excepting the Bon Accord electric inhaler) are subject to a discount of 12½ per cent.

P.A.T.A. YEAR BOOK CORRECTIONS

ADDIS, LTD. (p. 25) No. 3008 ladies' hair brush

12 6

CHATELAIN PREPARATIONS (p. 59) Boldarlem\*

65 2 8 1

H. & T. KIRBY & CO., LTD. (p. 117) Purgen

1 4

D. MAWDSLEY & CO. (p. 135) Asmolin tablets

2 4½

OPTREX, LTD. (p. 149) Compresses

6 4 1

Orders over £10 (not £70) less 10 per cent.

GEIGY PHARMACEUTICAL CO., LTD. (p. 158) Butazolidin ampoules

5 134 6 14 11

50	1,152	0	128	0
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100	2,194	0	243	9
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50	288	0	32	0
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100	557	0	61	10
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500	2,633	0	292	6
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1 oz.	25	0	2	9
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4 oz.	62	0	6	10
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A. WANDER, LTD. (p. 207) Alocol cream

8 oz. 21 0 2 4

Each	8	6	11	4
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48 oz.	8	6	11	4
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80 oz.	16	0	21	4
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# A physiological treatment of constipation

**SENOKOT RESTORES NATURAL RHYTHM**

Senna is a neuro-muscular stimulant of peristalsis and produces a good imitation of normal defaecation. Such a physiological effect is of great value in restoring natural rhythm.

Through the production of Senokot, the first stable, standardised preparation of senna, the full therapeutic activity of the drug has been made available and its re-educative effect demonstrated.

# Senokot

REGD.

**STANDARDISED SENNA GRANULES**

*Lancet*, 1952, 1, 655.

*ibid* 1953, 1, 497 and 602.

*Practitioner*, 1953, 170, 266.

*Medical Press*, 1954, 231, 521.

Dose: children  $\frac{1}{2}$ -1, adults 1-2 teaspoonfuls.

Retail sizes: 2 oz. 2/6 and 6 oz. 7/-.

2 lb. dispensing pack at 9/- a lb. (tax free).

Category 3: Joint Committee on Prescribing.



WESTMINSTER LABORATORIES LTD., CHALCOT ROAD, LONDON, NW1



## CORKS, STOPPERS, BUNGS.

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CAMPERDOWN STREET  
LONDON, E.I.

# The shaving brush with the TWO YEAR guarantee . . .

We cordially invite you, when in London to visit our showrooms at:—

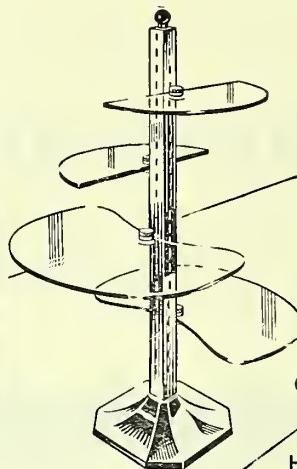
92 Regent Street, London, W.1  
(one minute from Piccadilly Circus)  
and see our range of 250 Pure Bristle and Pure Badger Shaving Brushes to suit all markets



Please ask your wholesaler for particulars of our special offers.

Write for illustrated brochures and price lists

**THE PROGRESS SHAVING BRUSH CO. LTD.**  
Mottram St., Stockport, Eng. 92 Regent St., London, W.1



## DISPLAY STAND

WITH

### CLIP BRACKETS

(for individual shelves)

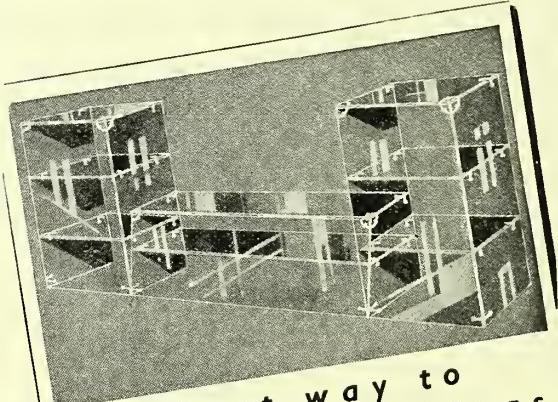
Here's a simple, adaptable display for your counter. Just one neat Clip Bracket holds each glass shelf rigidly but gently — the bracket's two lugs slot into any position in the Hokon column. Note particularly the prices.  
**IN TWO SIZES**

2 ft. high, supplied with two large and two small glass shelves—Circles, Half-Circles, Kidney or Oval. Chrome plated £4.7.6 complete. Brown-Bronze £4.0.0

3 ft. high, with three small and three large shelves Chrome plated £6.10.0. Brown-Bronze £6.0.0  
(Ex Works)

**CHURCH & CO. (FITTINGS) LTD.**  
ORACLE HOUSE, 36, MINSTER STREET, READING

Leeds Showrooms:  
17-19, BELGRAVE STREET, LEEDS, 1.  
Agent for Northern Scotland:—  
G. T. A. WINRAM, 121 Crown Street, Aberdeen · Tel.: 23373

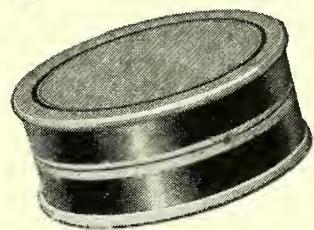
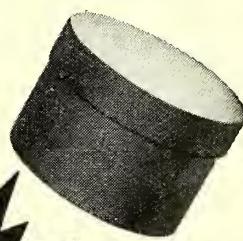


The best way to  
display things

Build up, on your counter or any other convenient shelf or pedestal, one, two or all three of these frameless glass cases. The contents will be visible to everyone and readily accessible for quick sales. Upright cases 24" x 18" x 12". Sloping Front Unit 36" x 14½" high x 12". Other sizes to order

**GUPWELL**  
DISPLAY THINGS

Write for the Complete Catalogue  
A. J. GUPWELL (SHOPFITTERS) LTD.  
123, Bradford Street, Birmingham, 12.

**STANDARD ROUND BOXES  
FOR THE CHEMIST-****"LITTLE JOHN"  
DRUMS****PILL  
BOXES****"SEALITE"  
OINTMENT  
BOX**

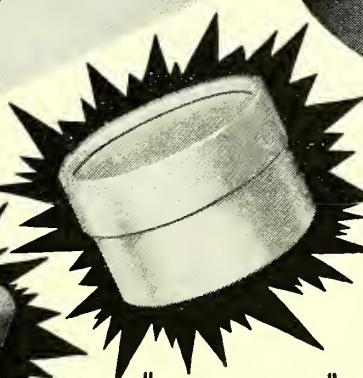
ALL AVAILABLE FROM STOCK THROUGH YOUR USUAL SUPPLIER  
**ROBINSON & SONS LTD WHEATBRIDGE MILLS, CHESTERFIELD**

Telegrams: 'BOXES' CHESTERFIELD      Telephone: 2105 (6 lines)

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KINGS BOURNE HOUSE, 229-231 HIGH HOLBORN, W.C.I

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**"CHEPETTE"  
PILL & OINTMENT BOX**

# Pattinson's

REGISTERED BRAND PRODUCTS

- LIGHT & HEAVY MAGNESIUM CARBONATES B.P.
- LIGHT & HEAVY MAGNESIUM OXIDES B.P.
- MAGNESIUM OXIDE LEVISSIMA
- MAGNESIUM HYDROXIDE B.P.C.
- MAGNESIUM TRISILICATE B.P.
- CREAM OF MAGNESIA B.P.

*Our Research Division welcomes enquiries from any manufacturer with a problem in which any of the above products are concerned. Please write to our Sales Technical Department if you require fuller information.*

for the  
**PHARMACEUTICAL**  
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## THE WASHINGTON CHEMICAL CO. LTD.

*A member of the TURNER & NEWALL ORGANISATION*  
**WASHINGTON · CO. DURHAM · ENGLAND**

*Nationally Advertised*

## NIGROIDS

Nigroids—the original liquorice and menthol pellets—are nationally advertised in the Daily Telegraph, Sunday Observer, News Chronicle, Manchester Guardian, The Times. See that you have a good stock on hand.  
From Wholesalers or Direct from Sole Manufacturers:  
FERRIS & CO. LTD., BRISTOL, 2

RETAIL PRICE  
ONLY 9½d.

Specialise in the manufacture of Quality Tablets of every kind, and of Contraceptive Foam Tablets of the highest standard.  
Quotations gladly submitted.

## Buckley Bowker Tablet Co.

LIMITED EST. 30 YEARS  
29 PARKFIELD STREET · LONDON · N·I · Telephone Canonbury 3401

Show 'Elasto' — It Sells on Sight!

# Elasto

THE BIOCHEMIC TABLET

Retail Price  
(incl. P.T.)  
5/8d. and 22/7d.

ELASTO advertising is widespread and consistent. A steady demand for this fine product is being created at your very door. Link up with this vigorous campaign by reminding your customers that YOU can supply. Your PROFIT IS ONE SHILLING AND SEVENPENCE on each sale!

NEW ERA LABORATORIES LTD.  
CECIL HOUSE · HOLBORN VIADUCT · LONDON



**or cartons**



# be it labels



**THESE ARE THE SILENT, THOUGH  
VERY ACTIVE AMBASSADORS  
OF YOUR BUSINESS**

They are an enigma, for though being dumb they shout most lustily at every eye that falls upon them. They are loyal, but they are candid. Loyal because they always carry your name and candid because printing cannot deceive and thus reflects in crystal clearness a quality or the lack of it. You cannot quieten their shout, but you can direct it by ensuring that your printed matter is not lacking in quality and taste. For well over seventy years we have been designing and producing print that carries the hallmark of quality and shall be very happy to place the knowledge we have acquired in those seventy years, at your disposal.

**THOMAS WAIDE & SONS LTD.  
KIRKSTALL HILL, LEEDS, 5**

THE MODERN TREATMENT  
SHAMPOO  
FOR THE HAIR  
AND SCALP



## NUCTA OIL

THE SOAPLESS OIL SHAMPOO

AVAILABLE FOR COUNTER SALE

In 4 oz. size selling at ... ... 2/9½  
(19/- per doz. plus tax)

In 8 oz. size selling at ... ... 4/4  
(29/8 per doz. plus tax)

ALSO FULL RANGE OF

TOILET SPECIALTIES

VIOLET OIL, HAND LOTION,

AFTER SHAVING LOTION, ETC.

Obtainable from your usual wholesaler

Manufactured by

**STEWART, GOODALL & DUNLOP LTD.**  
121A PRINCES STREET — EDINBURGH

## SOUTH AFRICAN MARKET

Alex. Lipworth Ltd., Wholesale Pharmaceutical Distributors, offer facilities for the manufacture, packaging and distribution of Patent, Toilet, Proprietary and Ethical preparations throughout the Union of South Africa and the Rhodesias.

Head Office :  
**120 JEPPE STREET, JOHANNESBURG.**  
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**CAPE TOWN, DURBAN, BULAWAYO.**

### Traditional Solazzi Liquorice

A modern  
medicament in digestive  
disorders and gastric ulcers

MADE FROM PURE CALABRIAN LIQUORICE ROOT

PRICES UNDER £100

H.P. TERMS

DELIVERIES  
EX STOCK

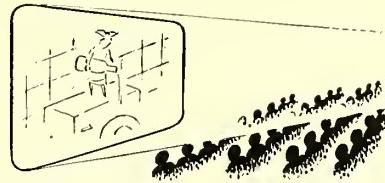
MAY WE  
DEMONSTRATE



THE REGNA  
CASH REGISTER COMPANY  
(Proprietors :  
The Joeli Safe Co. (London) Ltd.)  
Telephone: TRAfalgar 3718  
York Place, Adelphi, London, W.C.2

**REGNA**  
CASH REGISTER

*They see the Film . . . .*



*They see your Window..*



*and they buy more DOMESTOS !*

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BRUSHLESS  
LAVATORY CLEANSER



...disinfects  
as it cleans  
round the  
unseen  
bend!

**DISPLAY MATERIAL**  
This attractive Display Card is available for window and interior displays. The number is limited. If you would like one let us reserve it for you now.



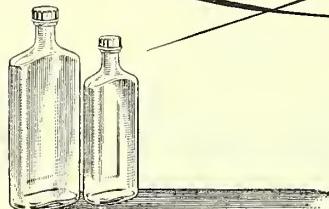
The lively Domestos Puppet Films are unique. The audience likes them, remembers them and buys more Domestos after seeing them — *because the message gets home!* Make the most of the goodwill these films are creating. Feature a Domestos display in your window, show Domestos on your counter — and be sure your stock is sufficient to meet new demands created by the combined impact of Domestos Press, Poster, Film and Point of Sale advertising. Our representative will let you know when the Domestos films are booked for your town.



Dont forget—our expert Display staff is at your Service.



Pack to attract....



The discerning Pharmacist demands a container which combines attractive appearance with sound functional design.

Beatson Bottles are produced



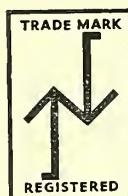
especially to satisfy both these requirements—they look well, store well, handle well, pour well—



Beatson Medicals, Panels,  
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and in fact every bottle used  
in Pharmacy is the better for  
being "BEATSON".



...in Beatson bottles



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GLASS BOTTLE MANUFACTURERS  
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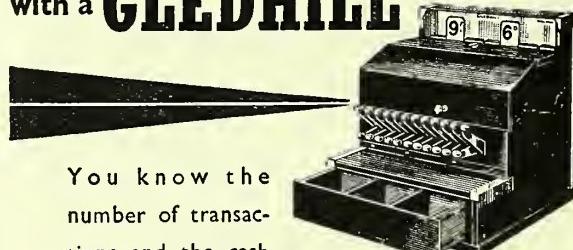


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**Wisdom**  
REGD.

The quickest-selling  
toothbrush

MADE BY ADDIS LIMITED, BRUSHWORKS, HERTFORD

Dear Sirs,

2.2.54

You may be interested to learn of my experience with one of your "Flextron" Tooth Brushes—in my opinion it is worthy of recording.

I purchased this brush (Hard bristles) in mid-June last year, after reading your advertisements, and only now after eight months continual use—4 times daily—is it reaching the end of its life. I think the poor old chap has more than earned its retirement, as the bristles are somewhat flattened, but during all this time not a single one has come out. To me this is positively astonishing, as previously I have tried —, —,\* your earlier brushes, and other makes, and in all cases they have been unusable after two months.

After this experience there will only be one Tooth Brush for me in the future—a "Flextron," and if my next gives me half the service of the one named, I shall be delighted.

I thought you might be glad to read of the success of your new venture, and if you care to use extracts from this letter for advertisement purposes, you may do so provided my name and address are deleted.

\*The writer mentions two well-known brands



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PER CUSTOMER

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GILL'S DANDRUFF REMOVER SHAMPOO proves its remarkable quality quickly and convincingly. Dandruff disappears at the first application and this pleasant, effective shampoo is equally suitable for both adults and children. Personal recommendation is rapidly sending up sales. Here is a shampoo with a record that promises an even bigger future. Now is the time to make sure of your share in it. From all wholesalers at 16/8d. per dozen to retail at 2/6d. per bottle.

Made and distributed in 12 European countries.

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THE SWIMMING CAP THAT  
REALY IS COMFORTABLE

- WATERTIGHT
- LONG LASTING
- FEATHERWEIGHT

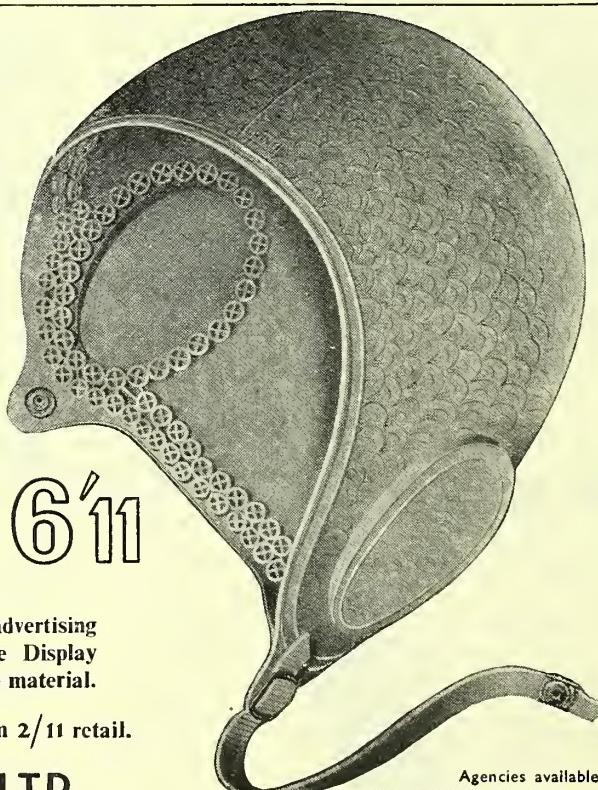
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Although introduced only last year, Trident is already an established favourite and a very worthy addition to the famous Submarine range of swimming caps.

The cap with the backing of a national advertising campaign. Individually packed in attractive Display Cartons, supported by full colour point of sale material.

Other *Submarine* swimming caps from 2/11 retail.

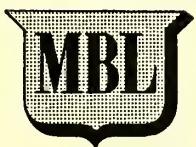
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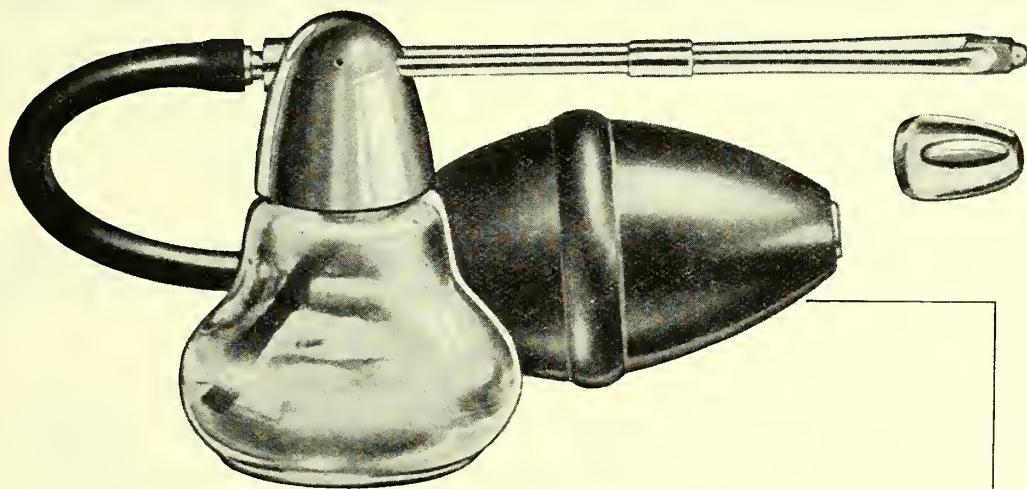
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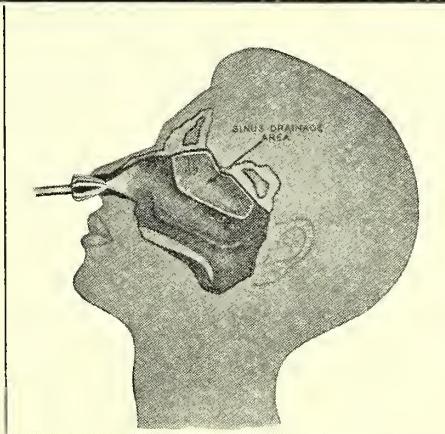


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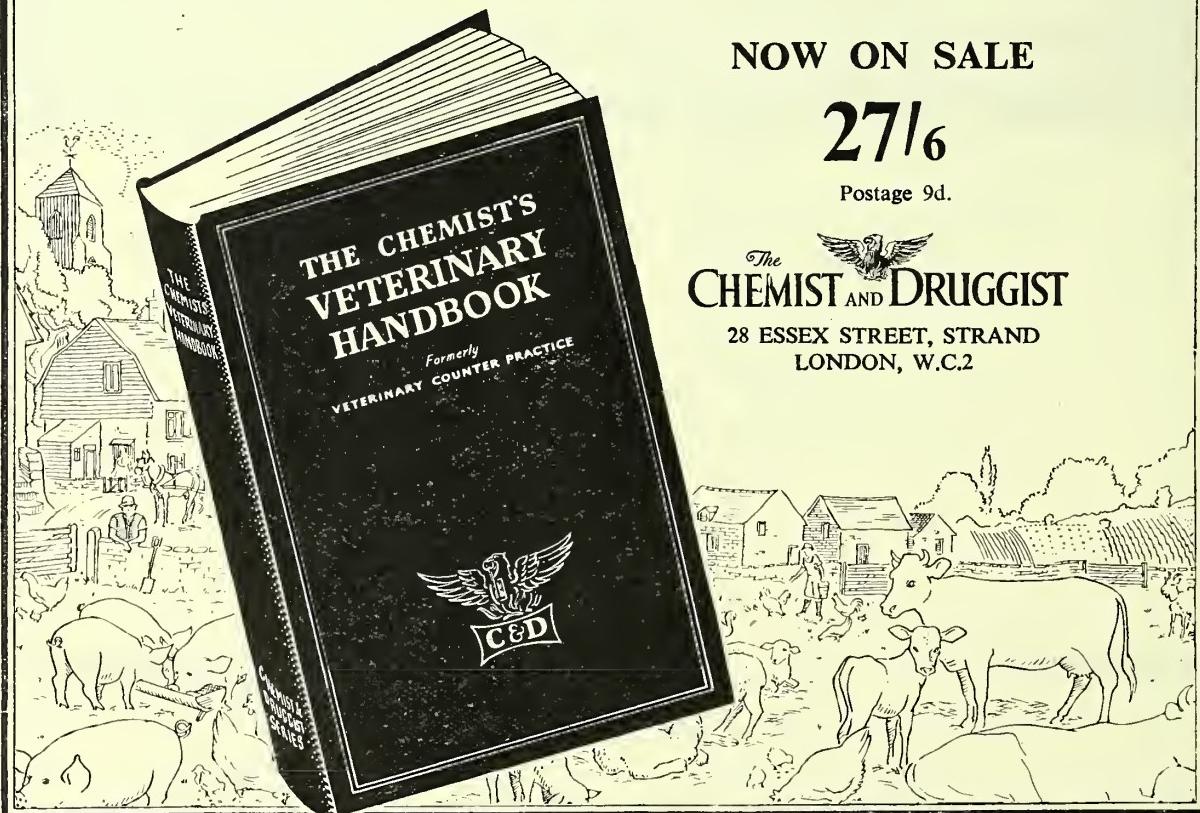
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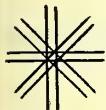


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Bust	36	38	40	42	45
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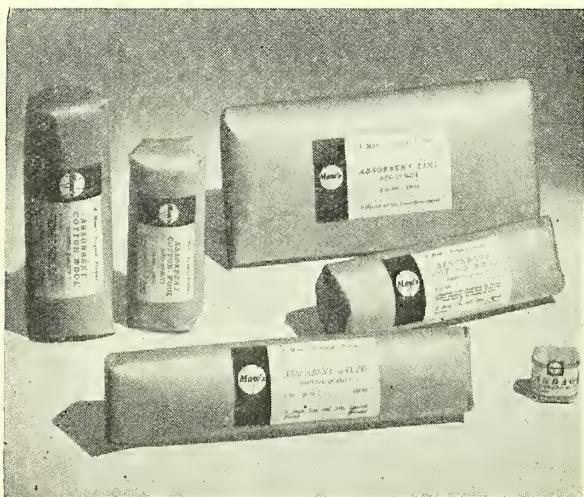
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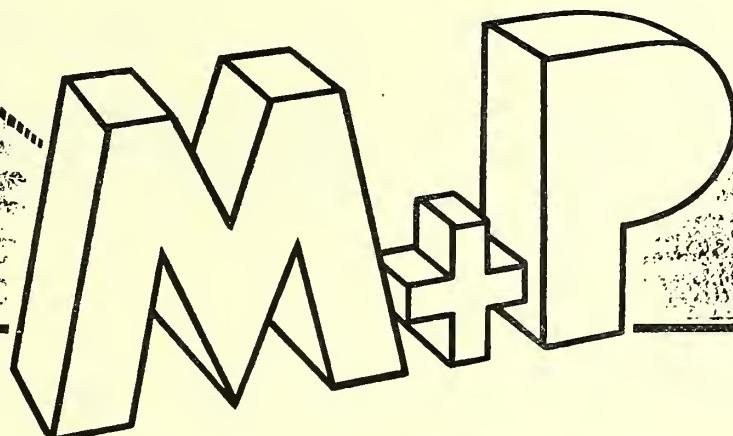
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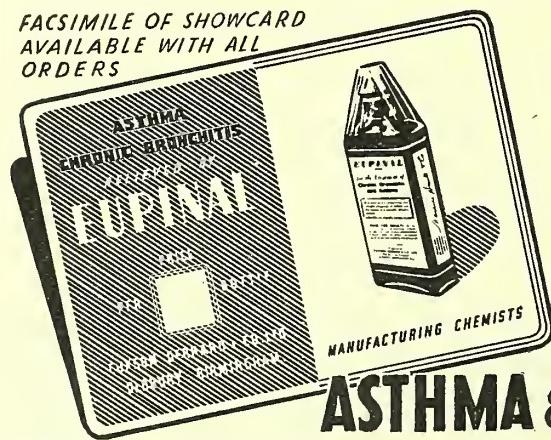
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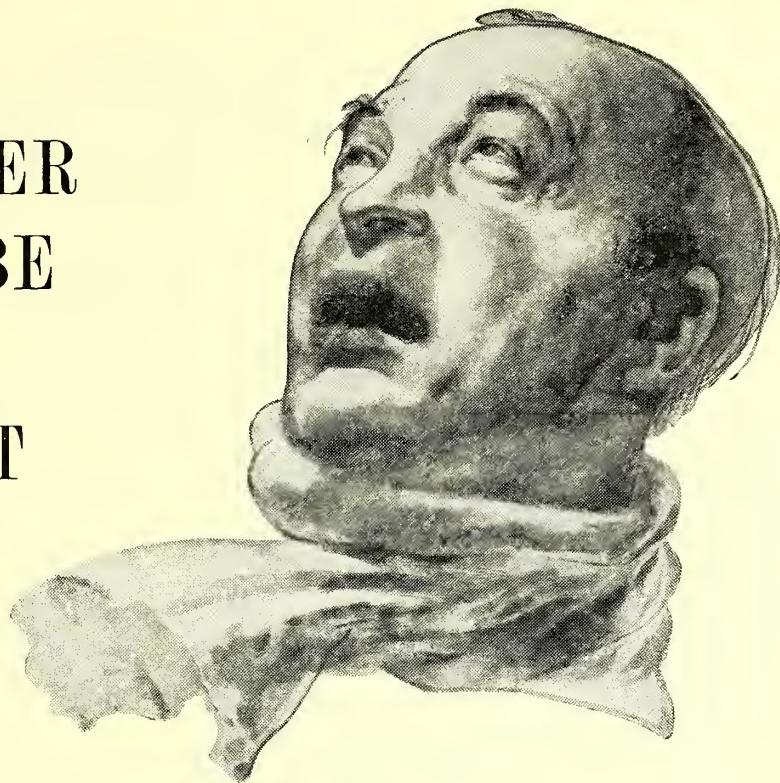
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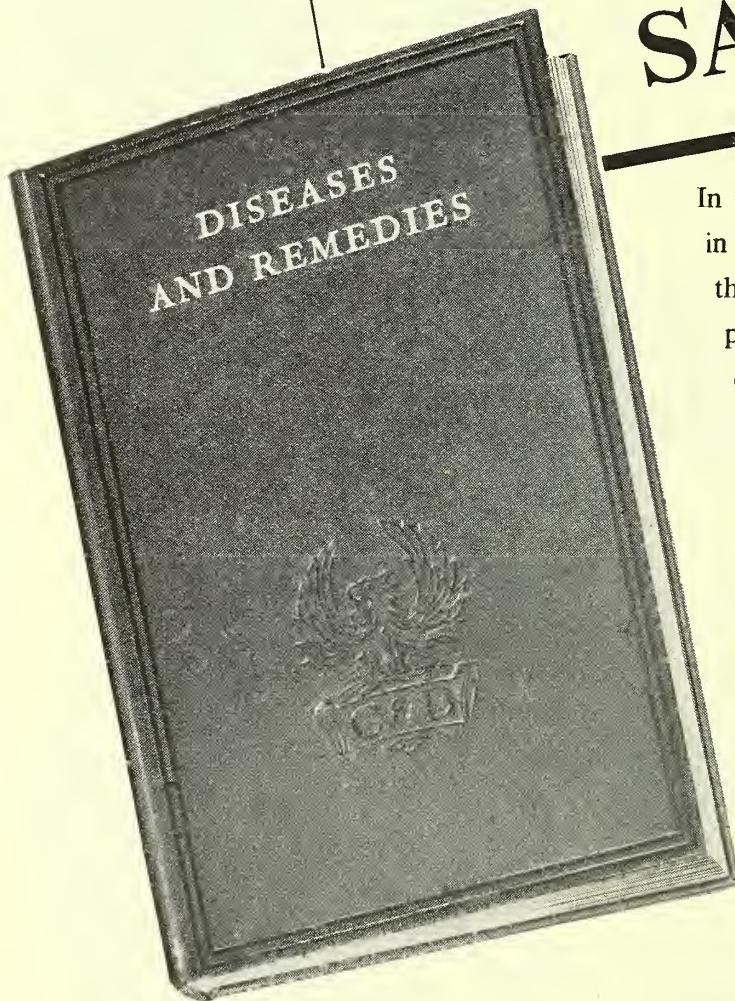
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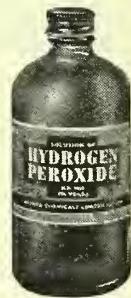
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Schweiz. med. Wschr., 1941, 71, 1093  
Rev. méd. Suisse rom., 1941, 61, 585  
Amer. J. dig. Dis., 1945, 12, 221



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# The CHEMIST AND DRUGGIST

## CLASSIFIED ADVERTISEMENTS

Supplement

28 ESSEX STREET, STRAND, LONDON, W.C.2

**ORRIDGE & COMPANY****CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS****BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF****Irish Representative : Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel: Belfast 27078****BUSINESSES FOR DISPOSAL**17/6 for 36 words (min.) then 4d. per word.  
Box 2/-

**CAMBRIDGESHIRE.** Good-class business (toilets, medicines, etc.), stock, fixtures and fittings at valuation. Rent £80 per annum. Excellent opening for pharmacist. Box C 2203.

**NORTH SHIELDS.** Drug store in busy shopping centre. Shop and house on tenancy. Suit chemist, near doctors' surgeries. Good-will, fittings, etc., £800, plus stock at valuation. Audited accounts. Box C 2207.

**APPOINTMENTS**18/- per half-inch (min.) and pro rata.  
Box 2/-**COLCHESTER GROUP HOSPITAL MANAGEMENT COMMITTEE**

Assistant in Dispensing

Applications are invited for the post of Assistant in Dispensing at the Essex County Hospital, Colchester. Salary and conditions of service in accordance with Whitley Council decisions. Applications, stating age, experience, qualifications and names of two referees, to the Group Secretary, 14 Pope's Lane, Colchester, Essex. C 8132

**MILLER GENERAL HOSPITAL,  
GREENWICH, S.E.10**

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist in a well-equipped pharmaceutical department at the above hospital. Inspection of the department may be made by arrangement with chief pharmacist (Tel. Tid. 1136). Pharmaceutical Whitley Council salary and conditions. Applications to Secretary, G. & D./H.M.C., St. Alfege's Hospital, S.E.10, as soon as possible. C 8136

**NOTTINGHAMSHIRE No. 1  
HOSPITAL MANAGEMENT  
COMMITTEE**

Pharmacist or Locum Pharmacist

required for Highbury and Heathfield Hospitals. To commence as soon as possible. Salary in accordance with Whitley Council Scale. Applications, stating age, qualifications and experience, with names of two referees, to be sent to the Group Secretary, General Hospital, Nottingham. C 8099

**ROMFORD GROUP HOSPITAL  
MANAGEMENT COMMITTEE,  
OLDCHURCH HOSPITAL,  
ROMFORD**

Assistant in Dispensing

required at Oldchurch Hospital. Applicants must hold the Certificate of the Society of Apothecaries of London. Salary and conditions of service in accordance with National Agreement.

Apply in writing to the Secretary, Romford Group Hospital Management Committee, Oldchurch Hospital, Romford, stating age, qualifications, occupation, experience and names of two persons for reference. C 8130

**NORTH WEST DURHAM  
HOSPITAL MANAGEMENT  
COMMITTEE**

Applications are invited for the under-noted vacancy:

**Senior Pharmacist**  
(resident or non-resident)  
at the SHOTLEY BRIDGE GENERAL  
HOSPITAL (557 beds).

Appointment offers a thorough experience in all branches of hospital pharmacy. Applicant would be responsible for the manufacture of sterile preparations. Salary and conditions of service according to the Pharmaceutical Whitley Council decisions.

Applications, stating age, qualifications and experience, together with names of two referees should be sent to the Secretary, Shotley Bridge General Hospital, Shotley Bridge, Consett, Co. Durham. C 8134

**STOBHILL GENERAL HOSPITAL,  
GLASGOW, N.I  
CATEGORY V TEACHING  
HOSPITAL**

Pharmacists (2)

Applications are invited from registered members of the Pharmaceutical Society, for the above posts. Salary in accordance with Pharmaceutical Whitley Council scale. Applications stating age, qualifications and experience should be addressed to Medical Superintendent. C 8081

**ST. PETER'S HOSPITAL,  
CHERTSEY, SURREY  
(404 beds)**

Pharmacist

required. Salary and conditions of service in accordance with Whitley Scales.

Applications stating age and experience with the names of two referees to the Hospital Secretary. C 8135

**WEST LONDON HOSPITAL,  
HAMMERSMITH ROAD,  
LONDON, W.6**

Pharmacist

required as soon as possible. Whitley salary scales and conditions.

Age, qualifications, experience, names two referees to Secretary by March 5. C 8139

**STOCKPORT AND BUXTON  
HOSPITAL MANAGEMENT  
COMMITTEE,  
STOCKPORT INFIRMARY,  
STOCKPORT**

Senior Pharmacist

Applications are invited from suitably qualified candidates for the above post which will appeal especially to Pharmacists interested in the preparation of sterile products.

Salary scale £525 x £25 to £625 per annum, plus £25 per annum if holding a higher qualification.

The post will fall vacant in March 1955. Applications with full particulars, together with copies of two testimonials or names of referees, to the Group Secretary, 59b Shaw Heath, Stockport. C 8129

**184 STRAND, W.C.2**

Tel.: TEMple Bar 9212/3 &amp; 6340

**WHOLESALE AND RETAIL**

Irish Representative : Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel: Belfast 27078

**SITUATIONS OPEN**8/6 for 36 words (min.) then 3d. per word.  
Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

**RETAIL (HOME)**

**CENTRAL LONDON.** Young lady counter assistant required for cosmetic or drug department in good-class pharmacy. Permanent position with good progressive salary. Saturday half-day. Apply stating age and details of previous experience to Box C 8103.

**DONCASTER CO-OPERATIVE CHEMISTS, LTD.** require the services of Pharmacists (male or female) as branch managers. Living accommodation with one post. Minimum rate £780 per annum, 44-hour week. Applications and usual particulars to Superintendent Chemist, St. Sepulchre Gate, Doncaster. C 199

**ESHER, SURREY.** Vacancy occurs for Pharmacist lady or gentleman. Duties mainly dispensing with occasional branch relief management. Usual holidays plus one day free each month. Apply, giving details, experience and salary required, J. Howard Evans, Esher Pharmacy, Esher, Surrey. C 2194

**HERITIS.** Unqualified dispensing assistant, male or female, required for busy family company business in Hoddesdon. Applicant must be quick and accustomed to busy N.H.S. dispensing. Good salary. Voluntary pension scheme. Permanency. Experience, etc., to: W. J. Berry, M.P.S., Timothy Whites & Taylors, 70 Vauxhall Bridge Road, S.W.1. C 8137

**ILFORD.** Excellent opportunity for energetic pharmacist to manage busy branch in pleasant area. Well-fitted shop. Adequate assistance. Up-to-date dispensary. Progressive salary with monthly bonus and rota duty payments. Modern maisonette, just redecorated, including three bedrooms, two reception rooms, etc., over branch. Permanency. Apply with full details stating when available for interview to Box C 2190.

**LADY DISPENSER/BOOK-KEEPER,** qualified, required as soon as possible. Semi-rural practice. Furnished rooms available. One dispenser already elsewhere in the practice. Half-day. Free Sundays. Send full particulars. Dr. Maurice Lee, Danbury, nr. Chelmsford. C 2179

**NORTH LONDON SUBURB.** Pharmacist required to manage spacious, well-fitted branch with substantial counter trade. Good opportunity for ambitious man to earn top salary together with monthly bonus and rota duty payments. Permanency with superannuation benefits, etc. Apply with full details stating when available for interview to Box C 2191.

**NORWICH.** Lady assistant required for counter and dispensing. Accommodation available if required. Apply, giving experience and salary required. B. R. Veness, B.Pharm., 103 St. Giles' Street, Norwich. C 2217

**'UNISEC' from the Single Unit to the Complete Pharmacy**

WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING

**MYERS of OLD ST.**  
133/5 & 141/7 OLD STREET, LONDON, E.C.I.

**Situations Open—Continued**

**PHARMACIST** required for the position of branch manager, male or female. Applications in writing stating age, experience and wage required, together with copies of two recent testimonials to the General Manager, Heckmondwike & District Co-operative Society, Ltd., 3 Oak Street (P.O. Box No. 16), Heckmondwike. (Suitable house available.) Endorse envelope "Chemist" in top left-hand corner, C 2206

**SHEPHERDS BUSH**, Excellent opportunity for ambitious pharmacist to manage modern, beautifully equipped branch close to television studios. Newly built self-contained flat above with all modern conveniences. Generous salary and monthly bonus. Permanency. Apply with full particulars of previous experience and stating when available for interview to Box C 2189.

**UNIQUE OPPORTUNITY**. Qualified (male or female) required to manage branch establishment on a new housing estate in Warwickshire. Rural area, but within easy reach of a large city and smaller country towns. Accommodation available. In order to attract the best type of applicant, purchase of shares in the private limited company will be encouraged but is not a condition of engagement. Interview and references essential. W. J. Adcock, Managing Director, Adcock, Chemist, Alcester, Ltd., 51/53 High Street, Alcester, Warwickshire, C 2216

**LOCUMS WANTED**

**LOCUM PHARMACIST** required during June to September for duty in Enfield and district area. Long or short periods. Salary and expenses basis. Apply in writing to General Manager, Enfield Highway Co-operative Society, Ltd., 112 Ordnance Road, Enfield, Middlesex, C 8073

**WHOLESALE**

**A LONDON PHARMACEUTICAL HOUSE** of the highest repute wishes to appoint a representative for a territory comprising Warwickshire, Cheshire, Staffordshire, Leicestershire, Nottinghamshire and Derbyshire. Applications, giving full particulars of past experience, age and salary required are invited from gentlemen with a good background in retail pharmacy. Qualification is not necessary, as adequate training will be given. Residence on the territory is essential; a company car is provided. Please reply to Box C 8144.

**AN ESTABLISHED HOUSE** distributing through chemists offers unique opportunity for representatives to add well-known, repeating lines to their range on good commission basis. Advertising support and commission paid on all orders from territory. Applications considered from dignified representatives who are well connected. Box C 8097.

**AN EXPERIENCED REPRESENTATIVE** required for (1) London, N. and E.; (2) South Staffs and North Birmingham, by a well-known company selling nationally to chemists and good grocers products supported by national advertising. Substantial basic salary, bonus, exceptional pension, life insurance and dependants benefit scheme. Car allowance. Full details to Box C 8142.

**AN OLD-ESTABLISHED FIRM** of manufacturing and wholesale chemists in the South Midlands have a vacancy in their ethical department for a young man with the necessary retail or wholesale experience to take charge of the department. The post offers prospects to a man with initiative and organising ability. Apply in writing, giving full details of career and state whether married or single to Box C 2215.

**AYRTON, SAUNDERS & CO., LTD.**, Liverpool, require an experienced representative for the Nottingham area. Write, giving full details, to the Home Sales Director, Hanover Street, Liverpool, C 8115

**A WELL-KNOWN FIRM** manufacturing ethical medical products requires representatives in the following areas: East Scotland, Liverpool and District, London, W.1, Sussex, Hants and Dorset. Previous experience an asset but not essential as training will be given. Age not exceeding 35. Good prospects for advancement. Applications with full details of experience to: The Manager, Professional Services Department, The Armour Laboratories, Hampden Park, Eastbourne, C 8124

**A WELL-KNOWN FIRM** of manufacturing chemists is about to extend its range of advertised lines and seeks representatives or commission agents in nearly all territories. Write, in first instance, for application form to Sales Director, Box C 8120.

**CHEMIST** required by Macleans, Limited, Great West Road, Brentford, Middlesex, to head up a section of its experimental laboratory in connection with the development (including formulation and processing) of pharmaceutical products. Excellent opportunity for qualified man, previous experience secondary to personal qualities and ability. The position is permanent and pensionable. Staff profit sharing scheme. Write in confidence giving fullest details of education, qualifications, age, experience, salary required to Personnel Manager, C 2211

**CIBA LABORATORIES, LTD.**, Production department, Applications are invited from pharmacists interested in the manufacture, filling and packaging of ethical products in the Horsham factory. Experience of this type of work and also of staff control is desirable but not essential. Excellent working conditions, five-day week, canteen, staff pension fund. Age not exceeding 30. Some assistance in housing will be given if necessary. Write giving experience and personal particulars to the Works Manager, CIBA Laboratories, Ltd., Horsham, Sussex, and mark envelope "Pharmacist." C 8128

**EXPERIENCED SALES REPRESENTATIVE** required by well-known company marketing nationally advertised products through chemists only for Northumberland, Durham, Cumberland and Westmorland. Preferably resident in Newcastle. Remuneration by salary, incentive commissions, also out-of-pocket expenses including lunch. Car provided and a contributory pension scheme is in operation. Applications stating age, experience, etc., which will be treated in strict confidence to Box C 8146.

**IMMEDIATE OPPORTUNITIES** for trainee salesmen in the chemist field dealing with pharmaceutical products. Initially a sound training in our business will be given lasting three months in London, thence field experience to qualify for vacant appointments in the British Isles. Commensurate salary to start then territory salary, commission and expenses with car provided when trained. Applicants should have selling experience to chemists or similar and preferably single, not under 25. Write full details to H.S.M., Box C 8126.

**MEDICAL REPRESENTATIVE** required immediately by Lederle Laboratories for North London area. Applicants should be men of striking personality and initiative, should be 25-35 and have a pharmaceutical qualification or experience with an ethical house of detail work among doctors and hospitals. Congenial, well-paid post backed by outstanding products and first-class promotional material. Liberal expenses, company car supplied. Fullest details in writing to Sales Manager, Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, London, W.C.2, C 8131

**PARKER, DAVIS & CO., LTD.**, invite applications from pharmacists for a junior executive position in their pharmaceutical manufacturing division. The position entails supervision of groups of process workers and offers an opportunity to gain wide experience in modern large-scale production methods. Good promotion prospects, previous manufacturing experience, while an advantage, is not essential, 5-day week. Staff restaurant, generous pension plan. Write with full particulars to Personnel Manager, Staines Road, Hounslow, Middlesex, C 8093

**BAYER PRODUCTS LIMITED**

require a young pharmacist (preferably F.P.S.) for an executive position with excellent prospects in their head office at Kingston-on-Thames. The post offers a really good opportunity for a candidate who wishes to make a career in the pharmaceutical industry. It will embrace sales, product development and technical correspondence. Every opportunity will be given to the successful candidate

Applications in confidence to the Sales Director, Neville House, Eden Street, Kingston-on-Thames, C 8092

**EXPERIENCED PRICERS** wanted for wholesale trade. W. Sutton & Co., Ltd., Horsehoe Lane, Enfield, Middlesex, C 2210

**JUNIOR SALES DIRECTOR** required by London firm of nationally advertised, well-known cosmetics. Educated, good appearance, age 25/35, keen, selling and promotion ability, capable of working on own initiative. Box C 2205.

**PARKER, DAVIS & COMPANY, LIMITED**  
Medical Service Department

Applications are invited from young pharmacists for an appointment in the Medical Service Department. Duties include answering technical inquiries and the compilation of literature. A knowledge of veterinary medicine, although not essential, would be an advantage. The position is progressive and offers good opportunities to the right man. Generous pension scheme, 5-day week. Staff restaurant. Please write in the first instance for an application form to the Manager, Medical Service Department, Parker, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, C 8100

**REPRESENTATIVES REQUIRED** able to take one additional line on commission basis. Specialised proprietary preparation for wholesale chemists and hairdressers' sundriesmen. Write or phone for appointment, C. Shelley & Co., Ltd., 33 Mill Lane, London, N.W.6. Hampstead 7021.

**RESEARCH CHEMIST**. Applications are invited from those suitably qualified for appointment as research chemist to a nationally known company of manufacturing chemists, within easy reach of Liverpool and Manchester. There is a growing programme of research work, particularly in the nutritional field, and the appointment offers opportunity of advancement. Applications, which should be fully detailed, will be treated in strictest confidence, and should be addressed, in the first place, to Box C 8113.

**ROCHE PRODUCTS, LTD.**, require medical representatives for (a) Leicester, Derbyshire and Staffordshire, and (b) South-west London and Surrey. A pharmaceutical qualification or equivalent academic achievement desirable but previous representative experience is not essential. Usual expenses and salary commensurate with experience. Contributory pension scheme in operation. Please send in confidence full details of age, experience, etc., to the Secretary, Roche Products, Ltd., 15 Manchester Sq., London, W.1, C 2161

**SALES EXECUTIVE** under 30 years of age required by fine chemical manufacturers in the Home Counties. Experience is not essential. Salary £500-£600 according to age and experience. Box C 8147.

**SHARP & DOHME, LTD.**, Applications are invited for vacancies as Medical Representatives in the following areas: (a) North and East Ridings Yorkshire; (b) South Yorkshire; (c) Midlands. Applicants should be men of initiative who are interested in securing satisfying and progressive positions with this company. Duties will consist of calling on doctors, chemists and hospitals, but previous experience in this type of work is not entirely necessary since theoretical and practical training is given. Company cars are provided for the successful applicants. Candidates aged 24-35, who will be prepared to take a long-term view of a career with considerable prospects, should send personal details to Sales Manager, Sharp & Dohme, Ltd., Hoddesdon, Herts, C 8121

**T. & H. SMITH, LTD.**, have a vacancy in their works at Edinburgh for a pharmacist or chemist, under 35 years of age, for interesting work in connection with the development and production of allergy preparations. Superannuation scheme in force. Apply giving full personal particulars to Works Director, T. & H. Smith, Ltd., Blandfield Chemical Works, Wheatfield Road, Edinburgh, 11. C 8109

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**Situations Open—Continued**

**WORKING FOREMAN** required for tablet compressing department of old-established manufacturing chemists on South Coast. Knowledge of coating an advantage but not essential. Opportunity for sound, practical man seeking advancement. Apply, giving age, experience and salary required to Box C 8122.

**SITUATIONS WANTED**

3/- for 18 words (min.) then 2d. per word.  
Box 1/-

**RETAIL (HOME)**

**DISPENSER** (male) seeks post. Preferably S.W. London. Part or full time. State possible pay and hours. Box C 2214.

**WHOLESALE**

**EXPERIENCED REPRESENTATIVE** with first-class chemist connection, South Wales, seeks appointment with reputable company. Salary/expenses basis. Box C 2182.

**REPRESENTATIVE** with many years connection in Lancashire calling on wholesale and retail chemists, hairdressers, co-ops, and departmental stores seeks appointment with reputable and well-known manufacturer. Commission only if product offers large potential turnover with permanent repeat business. Box C 2209.

**MY RECORD** in the formulation and production of cosmetics, perfumes, toilet and pharmaceutical preparations covers thirty years and a status of chief chemist to several well-known companies. I desire now to contact a progressive firm, preferably within the Greater London area, where this experience and a service well above the average, can be used to mutual advantage. Box C 2193.

**REPRESENTATIVE SEEKS CHANGE.** Chemists' connection South London and adjacent parts Kent and Surrey. Also experienced medical propaganda. Box C 2180.

**REPUBLIC OF IRELAND:** Experienced representative with first-class chemists' connection, seeks appointment with reputable company. Salary, commission, expenses and car provided basis. Box C 2219.

**WORKS MANAGER** seeks change. 22 years' experience in all branches of chemical and pharmaceutical trade. Manufacturing, packing, dispatch, home and export markets, general factory maintenance, staff control, South Coast area or Southern Counties preferred. Age 45 years. 15 years with present firm. Interview can be arranged. Box C 2208.

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**INDIA.** British manager of pharmaceutical manufacturing and importing company is open for engagement from June next. Eight years' experience of Indian, Far East and Middle East selling and trading conditions. Please apply P.O. Box 6097, Bombay, 5.      C 2099

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**MEDICAL REPRESENTATIVES****GLAXO LABORATORIES, LTD.**

Glaxo Laboratories, Ltd., invite applications from Pharmacists interested in an appointment as a Medical Representative in the U.K. The desirable age bracket is 25-35. As a thorough training will be given to selected candidates, previous experience of representation is unnecessary. There are good opportunities for progress and the development of initiative. The salaries are designed to recognise merit; pension and incentive schemes are in operation and a car is provided. Apply to Personnel Manager, Glaxo Laboratories, Ltd., Greenford, Middlesex.

C 8108

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17/6 for 36 words (min.) then 4d. per word.  
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**AGENT REQUIRED** for Devon and Cornwall by a well-known company selling nationally to chemists and good grocers products supported by national advertising. Commission basis. Full details to Box C 8143.

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**ALL KINDS OF BOTTLES, JARS, SCREW CAPS,** cartons, packaging materials and manufacturers' stocks of all kinds bought at fair price for spot cash. We are buyers of merchandise of **EVERY DESCRIPTION**. Clearance Stocks, Discontinued lines, Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153

**WANTED** any quantity old white or coloured cylinder shaped ointment or drug jars (pottery).

About 7 inches high or more, with printed names and lids. Also window display carboys.

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**EXPERIENCED REPRESENTATIVE** with well-established connection of several years' standing and with goodwill well maintained with leading retail chemists and departmental stores in the south and south-west counties desires agency for manufacturer of high-class products. Good references, Box C 2218.

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**MODERN CHEMIST SHOPFITTINGS**, drug ranges, wall cases and frameless sliding doors, display counters and showcases; all types of window fittings and display stands. D. Matthews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14/16 Manchester Street, Liverpool. C 141

**ANY SIZE TUBES** filled with your products. For sale,  $\frac{1}{2}$  in. x 3 in. lead tubes, good condition, also partitioned boxes to hold two gross,  $\frac{1}{2}$  in. x 3 in. units. Mendine Products, Ltd., 49 Watling Street, E.C.4. C 2202

**GRANDE VINO SPANISH BURGUNDY**, vintage 1952, bottles 60/- per dozen, delivered free cartons. The finest value you can offer your customers. Samples available on request. Carter & Co. (Wines), Ltd., 51 Dean Lane, Bristol, 3. C 2153

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**MANUFACTURING CHEMISTS** invite inquiries for the manufacture, packing, etc., of private formulae preparations, liquids, powders, tablets. Dispatch facilities available with own printing department. Frank Macowal & Yanatas, Ltd., Willshaw St., London, S.E.14. Tel.: Tideway 3846-8. C 122

**SILICONE RUBBER** for extreme temperatures, extremely long life, frequent sterilisation and research work: bungs, bottle cap liners, washers, teats for drop bottles, tubing, hospital sheeting and mouldings to customers' specifications. Esco (Rubber), Ltd., 34/36 Somerford Grove, London, N.16. C 8141

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**SCALES AND WEIGHING MACHINES**, Penny-in-the-slot and steelyard types. Dispensing scales. Write for details to Dept. "P." Vandome & Hart, Ltd., Wenlock Road, London, N.1. (Established 1660.) Showrooms, High Street, Kingston-on-Thames. C 207

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**PRESS.** Frequent advertisements continue to appear in DAILY HERALD, DAILY SKETCH, DAILY MIRROR, NEWS OF THE WORLD, SUNDAY GRAPHIC, SUNDAY PICTORIAL, GLASGOW BULLETIN, BELFAST TELEGRAPH, GLASGOW RECORD, WOMAN'S OWN, WOMAN'S WEEKLY, HOME CHAT, HOME NOTES, WOMAN'S SUNDAY MIRROR, and JOHN BULL.

**RADIO.** Listen at 10.15 on Tuesday evenings to the Savlon programme on Radio Luxembourg—208 metres.

**POINT OF SALE.** Large and small showcards are available, and window displays can be arranged.



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Ph.507

FEBRUARY 26 1955



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